Service Manual



and Technical Guide

Telephone Equipment

KX-T9310DM

(for Denmark)

WIRELESS PHONE

Please use this manual with the original Service Manual for model KX-T9300DM order No. KM49602026C2. This Service Manual indicates the main differences between: Original KX-T9300DM and KX-T9310DM.

↑ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians.

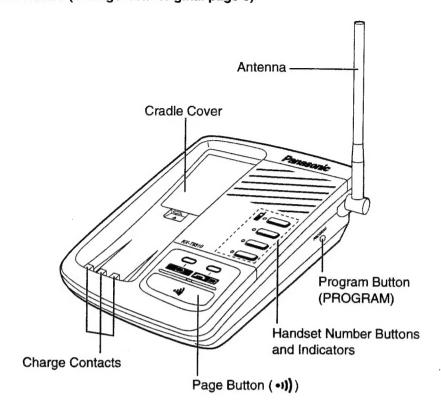
Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.



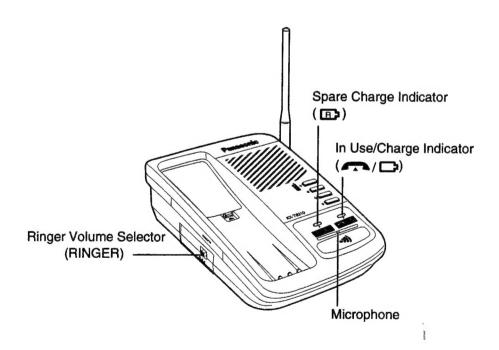
Panasonic

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LOCATION OF CONTROLS (Change from original page 3)

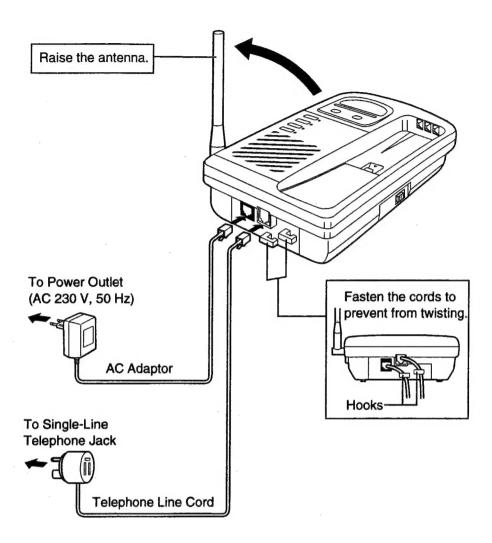


(Model KX-T9310DM)



(Model KX-T9310DM)

CONNECTION (Change from original page 5)



(Model KX-T9310DM)

ADJUSTMENTS (KX-T9310DMR) (Change from original page 16)

After servicing the RF unit, never make adjustments without assembling the upper RF unit cover and the lower RF unit cover with solder.

Adjustment Preparations

- 1. Connect the main P.C. Board to RF unit by the extension cord.
- 2. Connect a distortion meter (with AC voltmeter) to the SPK terminals (TP5) on the portable handset.
- 3. Connect 3.9 V to the battery terminals.
- 4. After pressing $\boxed{1}$, $\boxed{9}$, $\boxed{\times}$ keys at the same time, turn Power SW on. After that, press \boxed{P} key (Test mode on standby).
- 5. Press key (Test Mode on CH1 Talk).

Note: When selecting optional channel, press 2 3 keys after pressing P key of adjustment preparation 4 item (ex. CH23). Next press key (Test Mode on CH23 Talk)

If your unit have below symptom, adjust for each item as table of adjustment on pages 16 and 17.

Symptom	Remedy				
Dose not link between base unit and portable handset.	Adjust the adjustment items (A), (B), (C), (F) and (G).				
Speaker level of portable handset is unstable.	Adjust the adjustment item (D).				
Transmission sound for receiver is unstable.	Adjust the adjustment item (E).				
The operating distance between base unit and portable handset is loss than normall.	Adjust the adjustment items (H).				

ltem	Adjustment Item	Procedure
(A)	RX VCO Voltage Check	Place the voltmeter probe at TP2. Confirm that TP2 's voltage is within 0.5 V~2.5 V.
(B)	TX VCO Voltage Check	Place the voltmeter probe at TP3. Confirm that TP3 's voltage is within 0.5 V~2.5 V.
(C)	20 dB Electric Field Adjustment	While reduced level of S.S.G. set S.S.G. level when distortion of telephone line sending signal is 30 %. Confirm the level is less than 5 dBµVemf. If so, adjust VR1 so that brightness is equivalent whichever TP20 dB High and Low.
(D)	Receiving Level Adjustment	Connect a signal generator (959.0125 MHz, 1 kHz modulation frequency, 3 kHz modulation, +60 dB μ Vemf output level) to the RF unit TPA. Adjust VR3 so that the speaker output TP5 is –18.0 dBm \pm 0.5 dB (85 mV \pm 1.7 mV).
(E)	Modulation Sensitivity Adjustment	Connect a modulation meter and signal generator [959.0125 MHz, 60 dB μ Vemf (1 mV,–53 dBm), unmodulation] in TPA and GND. Connect an AF oscillator [f=1 kHz –36 dBm (12 mV) level] to the MIC terminals (TP4) and V _{ss} on the portable handset Adjust VR4 to set the modulation to 3.1 \pm 0.2 kHz Devi.
(F)	Standard Frequency Adjustment	Adjust VC201 so that transmission ferquency is set 914.0125 MHz \pm 0.5kHz(CH1). Connect frequency counter between TPA and GND.
(G)	12.8 MHz Transmitter Confirmation	Connect the frequency counter between the TP1 and GND and confirm that the frequency is 12.8 MHz and that Vp-p is approximately 900 mV.
(H)	TX Power Confirmarion	Connect the Spectrum analyzer the TPA and GND and confirm that the level is +7 dBm \pm 3 dB (10 mW~2.5 mW) Typ 5.0 mV.

Adjustment items (G) and (H): Refer to page 59.

Note: When selecting optional channel, press 23 keys after pressing Flash key of adjustment preparation 4 item (ex. CH23). Next press Talk key (Test mode on CH23 Talk).

■ INFORMATION (Change from original page 18)

Symptom: When redial operation or auto dial operation are slow.

Cancellation of the dial tone detect

- 1) Press Program button "->> ".
- 2) Press 4 key.
- 3) Press # kev.

Then portable handset's LCD indicates "1" or "2".

- " 1 " is normal.
- " 2 " is wrong.
- 4) When "2" is indicated, remedy according to 5), 6).
- 5) Press 1 key.
- 6) Press Program button " →>".

Then unit will be cancelled the dial tone detect.

■ ID CODE SETTING (Change from original page 19)

How to set base unit and portable handset to test mode

PORTABLE HANDSET

- 1) While pressing the Dial button 1 and 9 and X at same time, turn the Power switch "ON".
- Press Page button "P" once on the Portable Handset.
 The Portable Handset becomes Test Standby mode.

BASE UNIT

- 3) While pressing SW1 (refer to page 15), connect power supply to AC adaptor. "Pi" alarm sounds.
- 4) Press Page button " •))) " once on the Base Unit.
 The Base Unit becomes Test Standby mode.

PORTABLE HANDSET

- 5) Press Program button "→> ".
- 6) Press Page button "P".
- 7) Enter ID code (7 digits).

Example: If you enter "000010" ID code, push [0], [0], [0], [0], [0], [1], [0] keys.

- 8) Press Page button "P".
- 9) Press 1 key.
- 10) Press Page button "P". "Pi" alarm sounds.
- 11) Press [0] and [4] keys (It is country code for Sweden).
- 12) Press Page button "P".
- 13) If your unit is model No. KX-T9310DM, press 5 and 0 and 1 keys (It is KX-T9310DM model code of Portable Handset).
- 14) Press Page button "P".

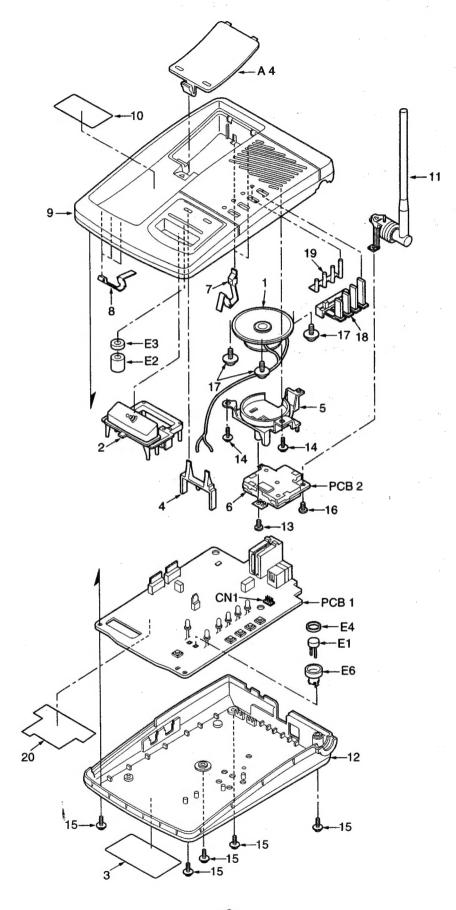
Portable Handset will make linkage to Base Unit.

- "Pi..." alarm sounds.
- 15) Press Page button "P".
- 16) If your unit is model No. KX-T9310DM, press 5 and 0 and 1 keys (It is KX-T9310DM model code of Base Unit).
- 17) Press Program button "→> ".
- 18) Turn the Power switch to "OFF" to end the setting.

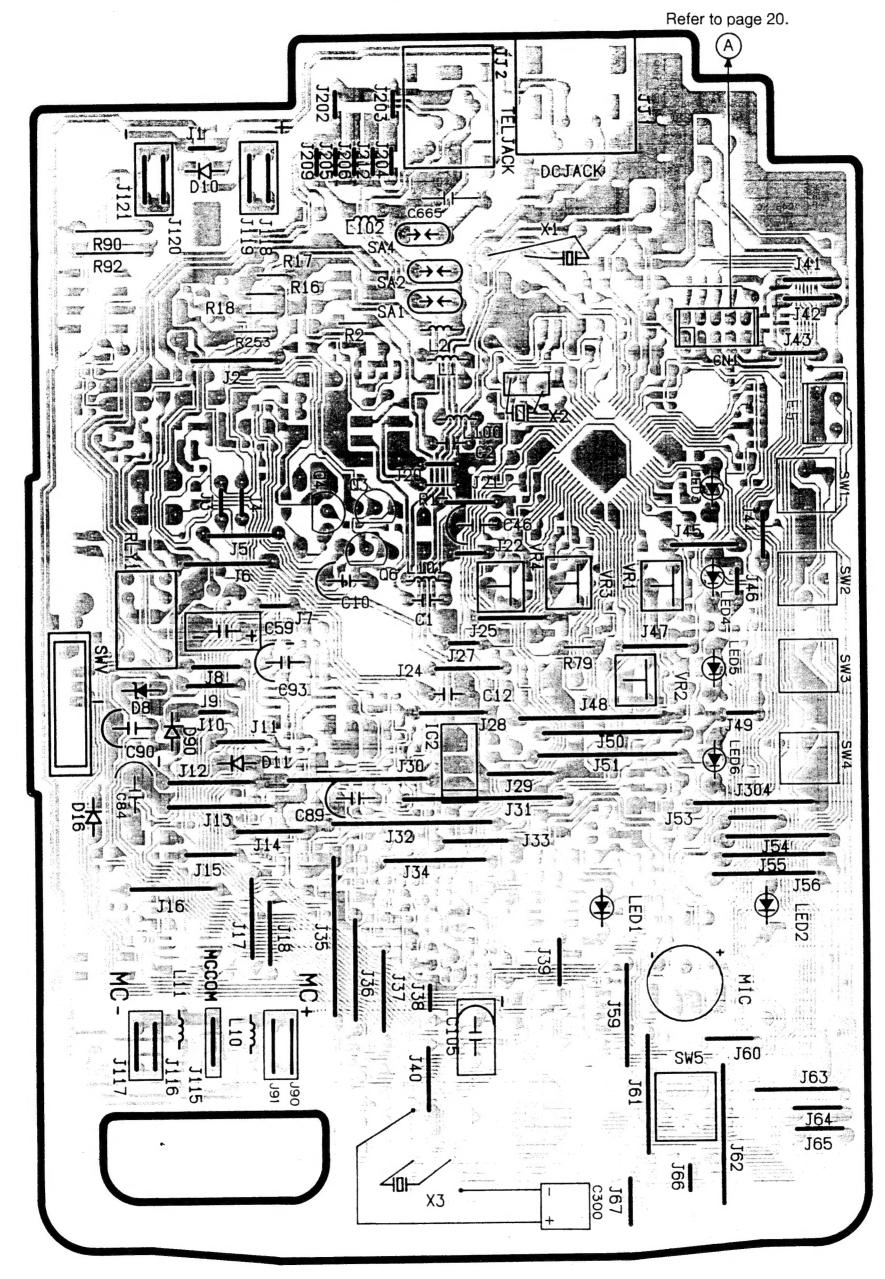
BASE UNIT

19) Press SW1 (refer to page 15) button to end the setting.

■ CABINET AND ELECTRICAL PARTS LOCATION (KX-T9310DMH) (Change from original page 60)

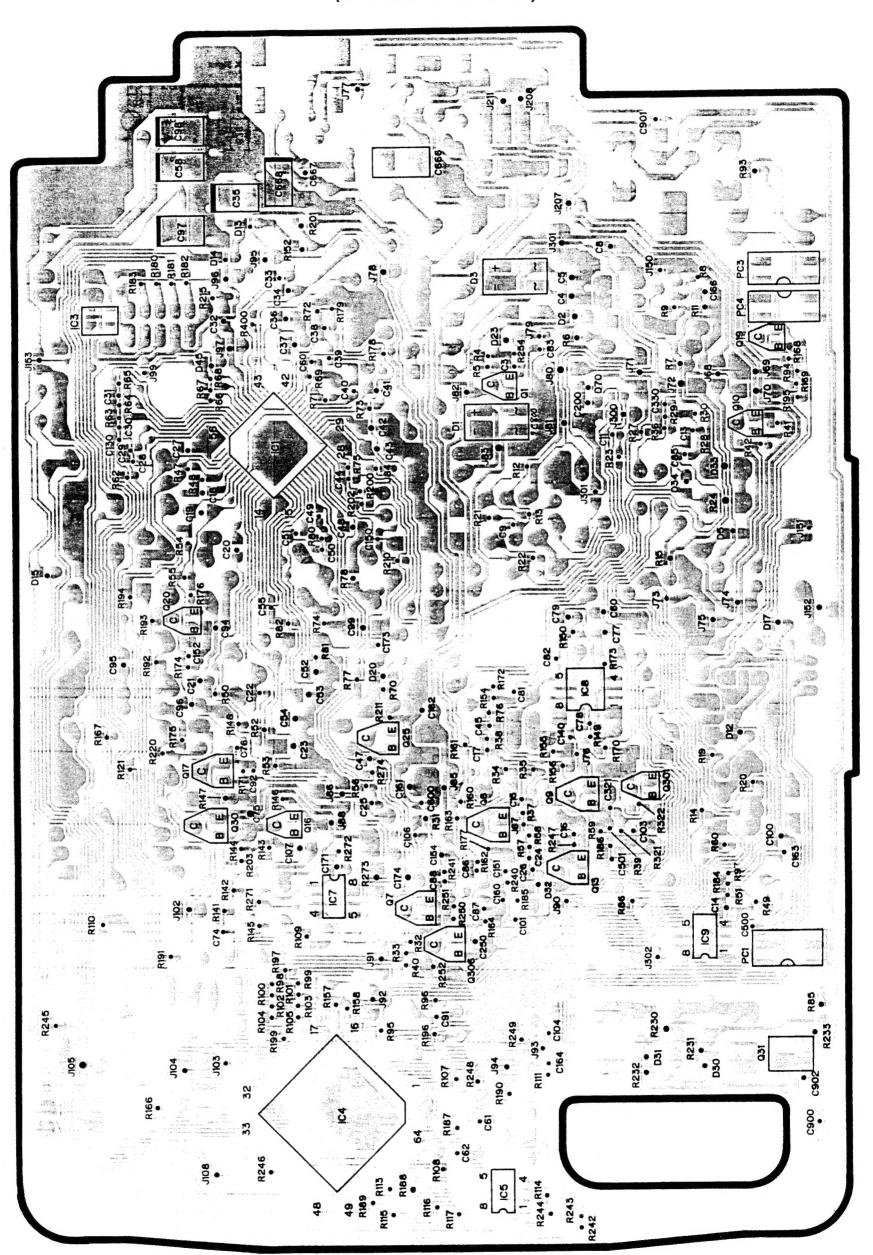


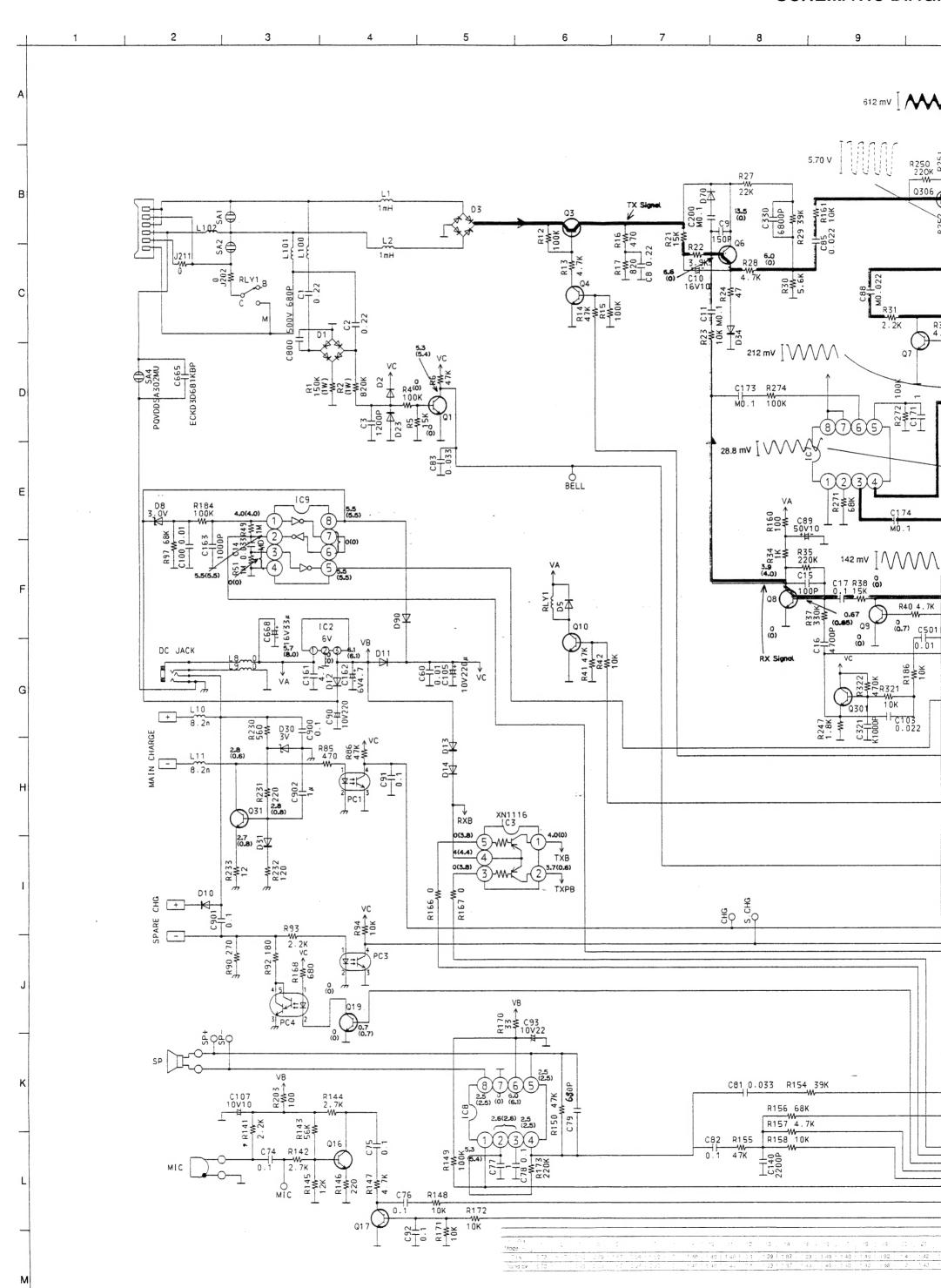
(Component View)

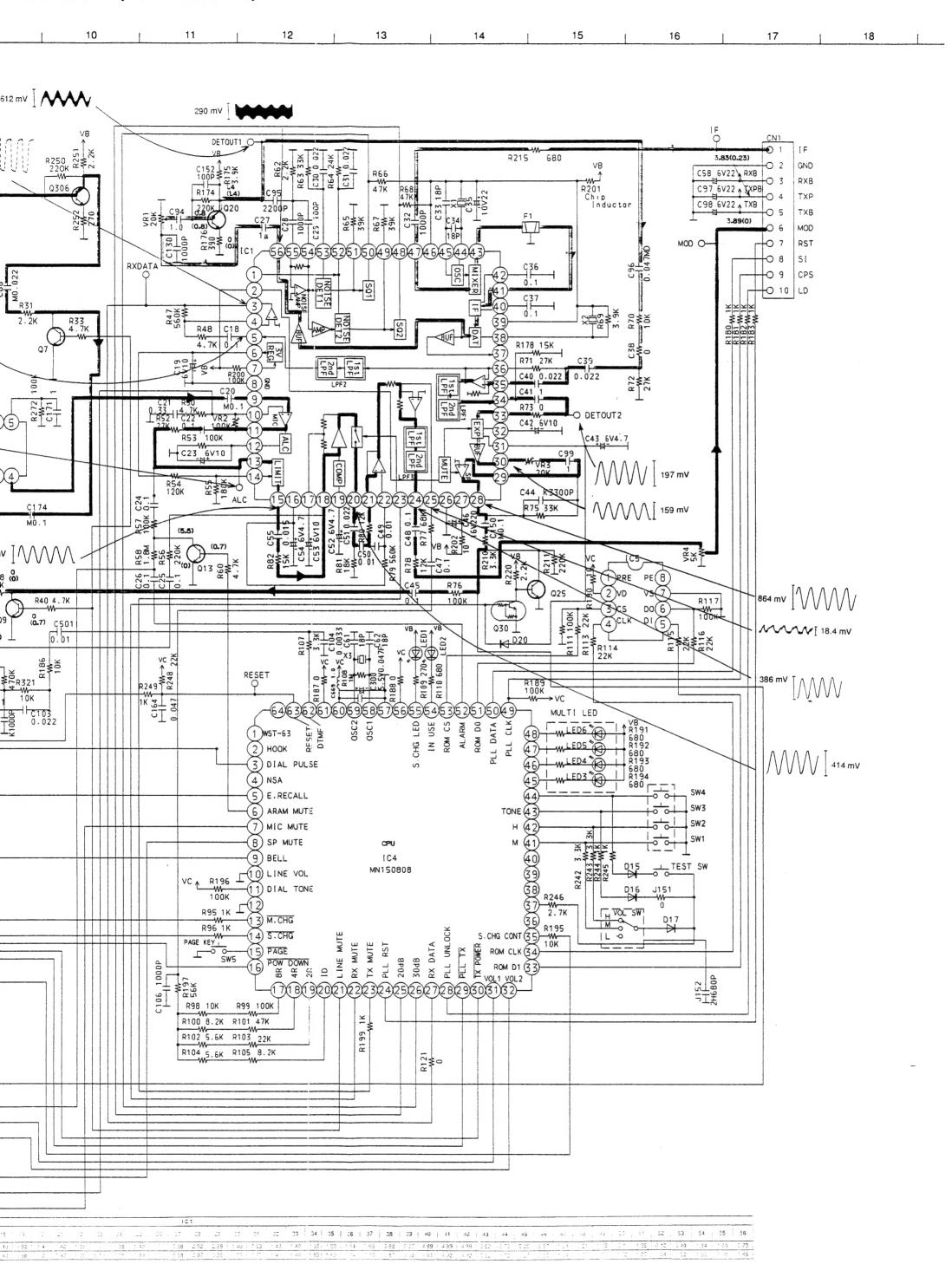


9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 1

(Flow Solder SideView)







KX-T9310DM

Ref. No.	Part No.	Part Name & Description	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
L100	PQLQZM8R2K	COIL	1	R10	Not Used		
L101	PQLQZM8R2K	COIL	1	R11	Not Used		1
L102	PQLQZM8R2K	COIL	1	R12	ERJ3GEYJ104	100K	1
R201	PQLQR1KT	COIL	1	R13	ERJ3GEYJ472	4.7K	1
			1	R14	ERJ3GEYJ473	47K	1
				R15	PQ4R10XJ104	100K	1
		(SWITCHES)		R16	ERDS2TJ471	470	1
swv	PQSS3A17W	SWITCH, RINGER VOLUME	1	R17	ERDS2TJ821	820	1
SW1	EVQQJJ05Q	SWITCH, HANDSET NUMBER	1	R18	Not Used		1
SW2	EVQQJJ05Q	SWITCH, HANDSET NUMBER	1 1	R19	Not Used	1	1
SW3	1					l I	1
-	EVQQJJ05Q	SWITCH, HANDSET NUMBER	1 1	l _{Doo}	N-4 11 4		1
SW4	EVQQJJ05Q	SWITCH, HANDSET NUMBER	1 1	R20	Not Used		1 .
SW5	EVQQJJ05Q	SWITCH, PAGE	1	R21	ERJ3GEYJ153	15K	1 1
			1	R22	ERJ3GEYJ392	3.9K	1
			1	R23	ERJ3GEYJ103	10K	1
		(VARIABLE RESISTORS)		R24	ERJ14YJ470	47	1 1
VR1	EVNDXAA03B24	VARIABLE RESISTOR	1 1	R25	Not Used		1
VR2	EVNDXAA03B15	VARIABLE RESISTOR	1	R26	Not Used	1	1
VR3	EVNDXAA03B24	VARIABLE RESISTOR	1	R27	ERJ3GEYJ223	22K	1
VR4	EVNDXAA03B53	VARIABLE RESISTOR	1 1	R28	ERJ3GEYJ472	4.7K	1 1
				R29	ERJ3GEYJ393	39K	
				1		1	'
		(VADICTORS)		R30	ERJ3GEYJ562	5.6K	
CAI	BONDBOOM	(VARISTORS) VARISTOR		R31		Pro Control Co	1
SA1	PQVDDSS301L				PQ4R10XJ222	2.2K	1
SA2	PQVDDSS301L	VARISTOR		R32	Not Used	1,	
SA4	PQVDDSA302MU	VARISTOR A	1	R33	ERJ3GEYJ472	4.7K	1
				R34	ERJ3GEYJ102	1K	1 1
			1	R35	ERJ3GEYJ224	220K	1
		(PHOTO COUPLERS)	1	R36	Not Used		
PC1	PQVIP27011M3	PHOTO ELECTRIC TRANSDUCER A	1 1	R37	ERJ3GEYJ334	330K	1 1
PC3	PQVIP27011M3	PHOTO ELECTRIC TRANSDUCER A	1	R38	ERJ3GEYJ153	15K	1 1
PC4	PQVIP27021L3	PHOTO ELECTRIC TRANSDUCER A	1	R39	Not Used		
				R40	ERJ3GEYJ472	4.7K	1 1
Ī		(TACKE)		R41	ERJ3GEYJ473	47K	
		(JACKS)	1				
JJ1	PQJJ1T013Y	JACK, DC	1 1	R42	PQ4R10XJ103	10K	1 1
JJ2	PQJJ1TC2Y	JACK, TEL	1 1	R43~46	Not Used		1
			1 1	R47	ERJ3GEYJ564	560K	1 1
			1	R48	ERJ3GEYJ472	4.7K	1 1
		(CRYSTAL OSCILLATORS)	1	R49	ERJ3GEYJ105	1M	1 1
X1	PQVCJ2094N4R	CRYSTAL OSCILLATOR	1				
X2	PQVFCDBM455M	CRYSTAL OSCILLATOR	1 1	R50	ERJ3GEYJ472	4.7K	1
X3	PQVCJ3581N9Z	CRYSTAL OSCILLATOR	1 1	R51	ERJ3GEYJ105	1M	1 1
			1 .	R52	ERJ3GEYJ273	27K	1 1
			1	R53	ERJ3GEYJ104	100K	1 1
		(OTHERS)		R54	ERJ3GEYJ124	120K	
CN1	PQJP10B01Z	CONNECTOR	1 1	R55	ERJ3GEYJ184	180K	
RLY1	PQSL134Z	RELAY		R56	ERJ3GEYJ224	220K	1
	1			R57			
E1	PQJM120Z	MIC	1 1		ERJ3GEYJ104	100K	1 1
E2	PQHR10434Z	MIC SPACER	!	R58	ERJ3GEYJ185	1.8M] 1
E3	PQHX10563Z	MIC NET	1 1	R59	Not Used		1 1
E4	PQHX10564Z	MIC SPONGE	1 1			1	1 1
E5	EVQQKH06K	SWITCH, PROGRAM	1 1	R60	ERJ3GEYJ472	4.7K	1 1
E6	PQHR10317Z	MIC HOLDER	1	R61	Not Used		
				R62	ERJ3GEYJ222	2.2K	1 1
				R63	ERJ3GEYJ333	33K	1 1
	1			R64	ERJ3GEYJ243	24K	1 1
		1		R65	ERJ3GEYJ393	39K	1 1
				R66	ERJ3GEYJ473	47K	
	1	1					
		1	1 1	R67	ERJ3GEYJ393	39K	1 1
			1 1	R68	ERJ3GEYJ473	47K	
		(PERIOTORS)	1 1	R69	ERJ3GEYJ392	3.9K	1 1
		(RESISTORS)					
R1	PQRD1VJ154	150K	1 1	R70	ERJ3GEYJ103	10K	1 1
R2	ERDS2TJ824	820K	1	R71	ERJ3GEYJ273	27K	1 1
R3	Not Used	*	1 1	R72	ERJ3GEYJ273	27K	1
R4	ERJ3GEYJ104	100K	1 1	R73	ERJ3GEY0R00	О	1 1
R5	ERJ3GEYJ153	15K		R74	Not Used	1	
R6	PQ4R10XJ473	47K		R75	ERJ3GEYJ333	33К	1 1
R7~9	Not Used	177	'	R76	ERJ3GEYJ104	100K	
~y	THOI USEU	1					1 1
		<u> </u>		R77	ERJ3GEYJ683	68K	1

Pcs/Set

Part Name & Description

MAIN P.C.BOARD PARTS

P.C.BOARD ASS'Y (RTL)

This replacement parts list is Denmark version only. Refer to the simplified manual (cover) for other areas.

Ref. No.

PCB1

Part No.

PQWPT9310DMH

				Mod	ol KV	Г9310D	N/LI
1. RTL (Retenti	nn Time I i	mited)		IVIOQ	ei KV-	עטו פּפּו	IVIII
Note: The mark After the continue of availa parts as	ing (RTL) disconting to be availability depe	indicates the uation of the ilable for a ends on the retention.	is asser specific type of	nbly in poperiod of assembly	oduction, time. The	the item version the retention laws gove	will period ering
2. Important sat		raliable.					
Components	•	by the A	mark in	ndicates s	special ch	aracteristic	cs
important for		_			•		
specified mai				J. 111000		, oing o	
3. The S mark i	ndicates s	ervice stan	dard par	ts and m	ay differ	from produ	iction
parts.						•	
I. RESISTORS							
Unless other							
All resistors a		, ,	-		}		
All capacitors	are in MIC	RO FARAI	-		!		
All capacitors *Type & Watt	are in MIC	RO FARAI	-				
All capacitors	are in MIC age of Res	RO FARAI	DS (μF		IPQ4R:C	arbon	
All capacitors *Type & Watt	are in MIC age of Res	RO FARAI	DS (μF		PQ4R:0	arbon sible Resis	stor
All capacitors *Type & Watt Type ERC:Solid	are in MIC age of Re	CRO FARAI sistor ERX:Metal	DS (μF		PQ4R:C ERS:Fu		
All capacitors *Type & Watt Type ERC:Solid ERD:Carbon PQRD:Carbon Wattage	are in MIC age of Re	CRO FARAI sistor ERX:Metai ERG:Metai ER0:Metai	Film Oxide Film) Р=µµF	PQ4R:C ERS:Fu	sible Resis ment Resis	stor
All capacitors *Type & Watt Type ERC:Solid ERD:Carbon PQRD:Carbon Wattage 10,16:1/8W	are in MIC age of Res	CRO FARAI sistor ERX:Metal ERG:Metal ER0:Metal	DS (μF) Р=µµF	PQ4R:C ERS:Fu	sible Resis	
All capacitors *Type & Watt Type ERC:Solid ERD:Carbon PQRD:Carbon Wattage 10,16:1/8W *Type & Volta	are in MIC age of Res	CRO FARAI sistor ERX:Metal ERG:Metal ER0:Metal	Film Oxide Film) Р=µµF	PQ4R:0 ERS:Fu ERF:Ce	sible Resis ment Resis	stor
All capacitors *Type & Watt Type ERC:Solid ERD:Carbon PQRD:Carbon Wattage 10,16:1/8W *Type & Volta Type	are in MiC age of Res 14,25 ge of Capa	CRO FARAI sistor ERX:Metal ERG:Metal ER0:Metal :1/4W acitor	Film Oxide Film 12:1/2V) Р=μμF V	PQ4R:0 ERS:Fu ERF:Ce	sible Resis ment Resis 2:2W	stor
All capacitors *Type & Watt Type ERC:Solid ERD:Carbon PQRD:Carbon Wattage 10,16:1/8W *Type & Volta Type ECFD:Semi-Co	are in MiC age of Res 14,25 ge of Capa	ERX:Metal ERX:Metal ERG:Metal ER0:Metal :1/4W acitor	Film Oxide Film 12:1/2V) Р=µµF V D,ECBT,I	PQ4R:C ERS:Fu ERF:Ce	sible Resistant	stor
All capacitors *Type & Watt Type ERC:Solid ERD:Carbon PQRD:Carbon Wattage 10,16:1/8W *Type & Volta Type ECFD:Semi-Co ECQS:Styrol	are in MiC age of Res 14,25 ge of Capa	ERX:Metal ERX:Metal ERG:Metal ERO:Metal :1/4W acitor	PS (µF Film Oxide Film 12:1/2V CD,ECKI DE,ECQ	V D,ECBT,I V,ECQG	PQ4R:C ERS:Fu ERF:Ce	sible Resistant	stor
All capacitors *Type & Watt Type ERC:Solid ERD:Carbon PQRD:Carbon Wattage 10,16:1/8W *Type & Volta Type ECFD:Semi-Co ECQS:Styrol PQCUV:Chip	are in MiC age of Res 14,25 ge of Capa	ERX:Metal ERX:Metal ERG:Metal ERO:Metal :1/4W acitor ECC ECC	Film Oxide Film 12:1/2V CD,ECKI CE,ECQ EA,ECS	V D,ECBT,I V,ECQG	PQ4R:Ce ERS:Fu ERF:Ce	sible Resistant	stor
All capacitors *Type & Watt Type ERC:Solid ERD:Carbon PQRD:Carbon Wattage 10,16:1/8W *Type & Volta Type ECFD:Semi-Co ECQS:Styrol	are in MiC age of Res 14,25 ge of Capa	ERX:Metal ERX:Metal ERG:Metal ERO:Metal :1/4W acitor ECC ECC	Film Oxide Film 12:1/2V CD,ECKI CE,ECQ EA,ECS	V D,ECBT,I V,ECQG	PQ4R:Ce ERS:Fu ERF:Ce	sible Resistant	stor
All capacitors *Type & Watt Type ERC:Solid ERD:Carbon PQRD:Carbon Wattage 10,16:1/8W *Type & Volta Type ECFD:Semi-Ce ECQS:Styrol PQCUV:Chip ECQMS:Mica Voltage	are in MiC age of Res 14,25 ge of Capa	ERX:Metal ERG:Metal ERO:Metal ERO:Metal EI/4W acitor ECC ECC ECC	Film Oxide Film 12:1/2V CD,ECKI CE,ECQ EA,ECS	V D,ECBT, V,ECQG Z: Elect typropyle	PQ4R:C ERS:Fu ERF:Ce 1:1W	sible Resistant	stor
All capacitors *Type & Watt Type ERC:Solid ERD:Carbon PQRD:Carbon Wattage 10,16:1/8W *Type & Volta Type ECFD:Semi-Ce ECQS:Styrol PQCUV:Chip ECQMS:Mica Voltage ECQ Type	are in MIC age of Res 14,25 ge of Capa anductor	ERX:Metal ERG:Metal ERO:Metal :1/4W acitor ECC ECC	Film Oxide Film 12:1/2V CD,ECKI DE,ECCI EA,ECSI QP: Poi	V D,ECBT, V,ECQG Z: Elect typropyle	PQ4R:C ERS:Fu ERF:Ce 1:1W	sible Resisment Resisment Resisment Resisment Resisment 2:2W Ceramic er	stor
All capacitors *Type & Watt Type ERC:Solid ERD:Carbon PQRD:Carbon Wattage 10,16:1/8W *Type & Volta Type ECFD:Semi-Ce ECQS:Styrol PQCUV:Chip ECQMS:Mica Voltage ECQ Type 1H: 50V	14,25 ge of Capa anductor ECQG ECQV T 05: 50V	ERX:Metal ERG:Metal ERG:Metal ERO:Metal 1/4W acitor ECC ECC ECC ECC ECC ECC ECC ECC ECC EC	DS (µF Film I Oxide Film 12:1/2V CD,ECKI CE,ECQ EA,ECS: QP: Pol SZ Type 3.15V	V D,ECBT, V,ECQG Z: Elect typropylei	PQ4R:C ERS:Fu ERF:Ce 1::1W PQCBC : : Polyest rolytic ne	sible Resisment Resistant	3:3W
All capacitors *Type & Watt Type ERC:Solid ERD:Carbon PQRD:Carbon Wattage 10,16:1/8W *Type & Volta Type ECFD:Semi-Ce ECQS:Styrol PQCUV:Chip ECQMS:Mica Voltage ECQ Type	14,25 ge of Capa onductor ECQG ECQV T	ERX:Metal ERG:Metal ERO:Metal ERO:Metal 1/4W acitor ECC ECC ECC ECC ECC ECC ECC ECC ECC EC	DS (µF Film I Oxide Film 12:1/2V CD,ECK QE,ECQ EA,ECS QP: Pol	V D,ECBT,I V,ECQG Z: Elect lypropylei	PQ4R:C ERS:Fu ERF:Ce 1:1W	2:2W Ceramic er 1V :3 50,1H:5	3:3W

Ref. No.	Part No. Part Name & Description				
	CA	BINET & ELECTRICAL PARTS			
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	PQAS5P25Z PQBC10165Z1 PQBC10165Z1 PQGT12578Z PQHR10298Y PQHR10320Z PQHX10560Z PQJT10087Z PQJT10087Z PQJT10087Z PQGT1120ZZ PQSA10031Z PQYF10079N1 XTN3+8G XTW3+\$10P XTW3+\$10P XTW3+\$14P XY03+CG10FX PJHE5065Z PQBX10215Z1 PQHR10318Z PQMC10206Z	SPEAKER BUTTON, PAGE S NAME PLATE LED PLATE SPEAKER HOLDER INSULATOR (RF) BATTERY TERMINAL BATTERY TERMINAL UPPER CABINET S NOTE LABEL ANTENNA LOWER CABINET SCREW (RF) SCREW (SPEAKER HOLDER) SCREW SCHEW SCREW S	1 1 1 1 1 1 1 2 3 1 1 1 1 2 5 1 1 1 1 2 1 1 1 1 1 1 1 1 1		

IC1 IC2 IC4 IC5 IC7 IC8 IC9	AN6159FA PQVIPC78M06A MN150808KJAK PQVI93LC46XI AN6183SAE1 PQVIMC34119M PQVITC7W04FL	(ICS) IC S IC S IC S IC IC S	1 1 1 1 1 1
Q1 Q3 Q4 Q6 Q7 Q8 Q9 Q10 Q13 Q19 Q20 Q25 Q30 Q31 Q301 Q306 IC3	2SC4116 2SA1625 PQVT2N6517CA 2SD1992A 2SD601A 2SD601A 2SC4116 2SD601A 2SC4116 2SD601A 2SC4116 2SC4116 2SC4116 2SC4116 2SC4116 2SC4116 2SC4116 2SC4116 2SC4116 2SC4116 2SC4116 2SC4116 2SC4116 2SC4116 2SC4116 2SC4116 2SC4116 2SC4116 2SC4116	(TRANSISTORS) TRANSISTOR(SI)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
D31 D34 D70 D90 LED1 LED2 LED3 LED4 LED5	1SS131 MA700A MA110 MA112 MA112 MA110 1SS131 MA110 MA110 MA110 MA110 MA110 MA1112 MA8068M 1SS131 LNJ41LNKXAK LN31GCPHV LN31GCPHV LN31GCPHV	(DIODES) DIODE(SI) LED LED LED LED LED LED LED	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
L2 L10	ELEV102KA (ELEV102KA (PQLQZM8R2K (COILS) COIL COIL COIL COIL	1 1 1

KX-T9310DM

Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	Value		Pcs/Set
R250	ERJ3GEYJ224	220K	1			(CAPACITORS)		
R251	ERJ3GEYJ222	2.2K	1 1	C1	ECQE2224KF	0.22		1
R252	ERJ3GEYJ271	270	1	C2	ECQE2224KF	0.22		1
R253~269	Not Used			C3	ECUV1H122KBV	1200P		1
				C4~7	Not Used	0.22	s	١ .
R270	Not Used			C8	PQCUV1C224ZF	0.22 150P	. 3	1 1
R271	ERJ3GEYJ683	68K	1 1	C9	ECUV1H151JCV	1501		'
R272	ERJ3GEYJ104	100K	1 1	C10	ECEA1CKS100	10		1
R273	ERJ3GEY0R00	0 100K		C11	ECUV1E104ZFV	0.1	s	
R274	ERJ3GEYJ104	TOOK	' '	C12		0.1	Ŭ	' '
R275~319	Not Used			C12	Not Used Not Used			
		·		C13	PQCUV1H333JC	0.033	s	1
R320	Not Used	101/	1	C15	ECUV1H101JCV	100P	Ĭ	i
R321	ERJ3GEYJ103	10K		C16	ECUV1H472KBV	4700P		1
R322	ERJ3GEYJ474	470K	, ,	C17	ECUV1E104ZFV	0.1	s	1
R323~399	Not Used			C18	PQCUV1E104MD	0.1		1
B400	EB ISCEVABAA	0	1	C19	ECSTOJY106	10		1
R400	ERJ3GEY0R00	ľ	' '	0.13	2001001100	.~		·
J73	ERJ3GEY0R00	o	- 1	C20	PQCUV1E104MD	0.1		1
J73 J76	ERJ3GEY0R00	0		C21	PQCUV1E334ZF	0.33		1
J76 J79	ERJ3GEY0R00	o		C22	ECUV1E104ZFV	0.1	s	1
J84	ERJ3GEY0R00	0	1	C23	ECST0JY106	10		1
J87	ERJ3GEY0R00	0	1 1	C24	ECUV1E104ZFV	0.1	s	1
J90	ERJ3GEY0R00	o	1 1	C25	ECUV1E104ZFV	0.1	S	1
J93	ERJ3GEY0R00	o	1 1	C26	ECUV1E104ZFV	0.1	S	1
J99	ERJ3GEY0R00	o	1	C27	PQCUV1C105ZF	1	S	1
J103	ERJ3GEY0R00	o	1	C28	ECUV1H102KBV	1000P		1
J150	ERJ3GEY0R00	0	1	C29	ECUV1H101JCV	100P		1 -
J151	ERJ3GEY0R00	o	1					
				C30	ECUV1H223KBV	0.022	S	1
J75	PQ4R10XJ000	o	1	C31	ECUV1H223KBV	0.022	S	1
J77	PQ4R10XJ000	o	1	C32	PQCUV1H102J	1000P	S	1
J82	PQ4R10XJ000	О	1	C33	PQCUV1H180JC	18P	1	1
J85	PQ4R10XJ000	0	1	C34	Not Used			
J88	PQ4R10XJ000	0	1	C35	ECST1AX226	22		1
ł				C36	PQCUV1E104MD	0.1		1
J68	PQ4R18XJ000	0	1	C37	PQCUV1E104MD	0.1		1
J69	PQ4R18XJ000	0	1 1	C38	ERJ3GEY0R00	0		1
J70	PQ4R18XJ000	0	1 1	C39	ECUV1H223KBV	0.022	s	1
J71	PQ4R18XJ000	0	1 1	040	ECLIVIA LIDOON PV	0.000	s	1
J74	PQ4R18XJ000	0	1 1	C40 C41	ECUV1H223KBV PQCUV1C105ZF	0.022	S	1
J78	PQ4R18XJ000	0	1 1	C42	ECSTOJY106	10		1
J80	PQ4R18XJ000	0	1 1	C42	ECSTOJY475	4.7		
J81	PQ4R18XJ000	0	1	C43	ECUV1H332KBV	3300P		1
J83	PQ4R18XJ000	0		C45	ECUV1E104ZFV	0.1	s	1
J86	PQ4R18XJ000	1-	1	C46	ECEA1CU221	220	ŭ	1
J89	PQ4R18XJ000	0	1	C47	PQCUV1E104MD	0.1	l	1
J91	PQ4R18XJ000 PQ4R18XJ000	0		C48	PQCUV1E104MD	0.1		1
J92 J94	PQ4R18XJ000	0		C49	ECUV1H103KBV	0.01	.	1
J94 J95	PQ4R18XJ000	o						
J95 J96	PQ4R18XJ000	o	1	C50	ECUV1H103KBV	0.01		1 -
J96 J97	PQ4R18XJ000	0	1	C51	ECUV1H223KBV	0.022	s	1
J97 J102	PQ4R18XJ000	0		C52	ECSTOJY475	4.7	-	1
J104	PQ4R18XJ000	ő	1	C53	ECST0JY106	10		1
J104	PQ4R18XJ000	ő	1	C54	ECST0JY475	4.7		1
J108	PQ4R18XJ000	ő	1	C55	ECUV1H153KBV	0.015		1
J202	PQ4R18XJ000	o	1	C56	Not Used	i		
J211	PQ4R18XJ000	o	1	C57	Not Used	1		
J300	PQ4R18XJ000	o	1	C58	ECST0JX226	22	1	1
J303	PQ4R18XJ000	o	1	C59	EECW5R5D473	0.047	s	1
						1]	
D33	PQ4R18XJ000	0	1	C60	PQCUV1H103KB	0.01		1
D45	PQ4R10XJ000	0	1	C61	ECUV1H180JCV	18P	1	1
				C62	ECUV1H180JCV	18P	İ	1
	İ			C63~69	Not Used			
								1
				C70~73	Not Used	10.4		.
İ				C74	ECUV1C104KBV	0.1		1 1
ı		I	1	C75	ECUV1H104MD	0.1		1

Ref. No.	Part No.		Value	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
R78	PQ4R10XJ123	12K		1	R160	ERJ3GEYJ101	100	1
R79	ERDS2TJ564	560K		1 1	R161	ERJ3GEYJ103	10K	1
DOO.	ED ISCEVISOS	12K			R162~165	Not Used	<u> </u>	1 .
R80 R81	ERJ3GEYJ123 ERJ3GEYJ183	12K 18K	•	1	R166 R167	ERJ3GEY0R00 ERJ3GEY0R00	0	1 1
R82	ERJ3GEYJ153	15K		1	R168	ERJ3GEYJ681	0 680	1 1
R83	Not Used	1.01		'	R169	Not Used	680	'
R84	Not Used	1						
R85	PQ4R10XJ471	470		1 1	R170	ERJ3GEYJ330	33	1
R86	ERJ3GEYJ473	47K		1	R171	ERJ3GEYJ103	10K	. 1
R87~89	Not Used				R172	Not Used		1
					R173	ERJ3GEYJ224	220K	1 1
R90	ERD25TJ271	270		1	R174	ERJ3GEYJ224	220K	1
R91	Not Used				R175	ERJ3GEYJ392	3.9K	1
R92	ERD25TJ181	180		1	R176	ERJ3GEYJ391	390	1
	PQ4R10XJ222	2.2K		1 1	R177	Not Used		i
	ERJ3GEYJ103	10K		1 1	R178	ERJ3GEYJ153	15K	1
	ERJ3GEYJ102	1K 1K		1	R179	Not Used		
	ERJ3GEYJ102	68K			B400	EB IOCEVIAGO	4.0	1.
	ERJ3GEYJ683 ERJ3GEYJ103	10K		1	R180 R181	ERJ3GEYJ102 ERJ3GEYJ102	11K	1 1
	ERJ3GEYJ104	100K			R182	ERJ3GEYJ102	1K	1 1
1.00	E I I I I I I I I I I I I I I I I I I I	I . son	,	'	R183	ERJ3GEYJ102	1K	
R100	ERJ3GEYJ822	8.2K		1 1	R184	ERJ3GEYJ104	100K	
	ERJ3GEYJ473	47K			R186	ERJ3GEYJ103	10K	
R102	ERJ3GEYJ562	5.6K	A	1	R187	ERJ3GEY0R00	o	l i
R103	ERJ3GEYJ223	22K		1 1	R188	PQ4R18XJ000	О	1 1
R104	ERJ3GEYJ562	5.6K		1 1	R189	ERJ3GEYJ104	100K	1 1
	ERJ3GEYJ822	8.2K		1 -	1			
	Not Used				R190	ERJ3GEYJ100	10	1
	ERJ3GEYJ332	3.3K		1 1	R191	ERJ3GEYJ681	680	1
	ERJ3GEYJ105	1M		1	R192	ERJ3GEYJ681	680	1
R109	ERJ3GEYJ271	270	. *	1 -	R193	ERJ3GEYJ681	680	1
R110	ERJ3GEYJ681	680		1	R194 R191~194	ERJ3GEYJ681	680	1
	ERJ3GEYJ104	100K			R195	Not Used ERJ3GEYJ103	10K	1 1
	Not Used	100K		'	R196	ERJ3GEYJ104	100K	1 1
	ERJ3GEYJ223	22K		1 1	R197	ERJ3GEYJ563	56K	1 1
	ERJ3GEYJ223	22K		1	R198	Not Used	00.1	1 '
R115	ERJ3GEYJ223	22K		1	R199	ERJ3GEYJ102	1K	1 1
R116	ERJ3GEYJ223	22K		1				
	ERJ3GEYJ104	100K		1	R200	ERJ3GEYJ104	100K	1 1
	Not Used				R202	ERJ3GEYJ100	10	1
R119	Not Used				R203	ERJ3GEYJ101	100	1
D400	Mandala	1		1	R204~209	Not Used	1	
	Not Used				Dodo			1
R121 R122~139	ERJ3GEY0R00	0		1	R210 R211	ERJ3GEYJ332 ERJ3GEYJ224	3.3K	1 !
1122~139	NOT OSEC		**		1	Not Used	220K	1
R140	Not Used				R215	ERJ3GEYJ681	680	1 1
	ERJ3GEYJ222	2.2K	·	1		Not Used	000	'
	ERJ3GEYJ272	2.7K		- 1				1
	ERJ3GEYJ563	56K	l	1	R220	ERJ3GEYJ222	2.2K	1 1
	ERJ3GEYJ272	2.7K		1	R221~229	Not Used	1	
	ERJ3GEYJ123	12K		1				
	ERJ3GEYJ221	220		1	R230	ERD10TLJ561	560	1
1	PQ4R10XJ472	4.7K		1	R231	PQ4R10XJ221	220	1
	ERJ3GEYJ103	10K		1	R232	PQ4R10XJ121	120	1 1 1
R149	ERJ3GEYJ104	100K		1	R233	PQ4R10XJ120	12	1 1
2150	CD 100EV 1470	1,712		_ ,	R234~239	Not Used	1	
	ERJ3GEYJ473	47K		1	D040	Nink I In-ad	1	
	Not Used PQ4R10XJ000	0		-, 1		Not Used	1	[
	Not Used	ľ		1		Not Used ERJ3GEYJ332	3.3K	,
	ERJ3GEYJ393	39K		1		ERJ3GEYJ332 ERJ3GEYJ332	3.3K 3.3K	
. 1	ERJ3GEYJ473	47K		1		ERJ3GEYJ332 ERJ3GEYJ102	1K	
1	ERJ3GEYJ683	68K		1	R245	ERJ3GEYJ102	1K	1 1
	ERJ3GEYJ472	4.7K		1 1		ERJ3GEYJ272	2.7K	1 1
	ERJ3GEYJ103	10K		1		ERJ3GEYJ182	1.8K	1 1
1130 11								
	Not Used		I		R248	ERJ3GEYJ223	22K	1 1 1

Ref. No.	Part No.	Value		Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
C76 C77	ECUV1C104KBV PQCUV1C105ZF	0.1		1	C321 C322~329	ECUV1H102KBV Not Used	1000P	1
C78	ECUV1E104ZFV	0.1	s	1		1		İ
C79	PQCUV1H681JC	680P		1	C330 C331~499	ECUV1H682KBV Not Used	6800P	1
C80 C81	Not Used ECUV1H333KDV	0.033		1	C500	Not Used		
	ECUV1E104ZFV	1	s	1	C501	ECUV1H103KBV	0.01	1
	ECUV1H333KDV		s	1	C502~599	Not Used		
C84	Not Used		- 1					
	ECUV1H223KBV		s	1.	C600		0.1	1
	ERJ3GEY0R00	0	-1	1	C601~659	Not Used		
	Not Used ECUV1H223KBV	0.022	s	1	C660~665	Not Used		
	ECEA1HKS100	10	៕	i	C666	ECKD3D681KBP	680P	1 1
009	LOLATINOTO			·	C667	Not Used		i '
C90	ECEA1AKS221	220	1	-1	C668	ECST1CC336	33	1
•	ECUV1E104ZFV	0.1	s	-1	C669~799	Not Used		
C92	ECUV1E104ZFV	0.1	-	1				1 1
	ECEA1CKS220	22	ا	1	C800	ECUV2H681KB		1
	PQCUV1C105ZF		S	1	C801~899	Not Used		
	PQCUV1H222KB PQCUV1E473MD	2200P		1	C900	ECUV1E104ZFV	0.1	1
	ECSTOJX226	0.047 22		- 1	C900	ECUV1E104ZFV	0.1	1
	ECSTOJX226	22	-	- i	C902	PQCUV1C105ZF	1	1
	ECUV1E105ZF		s	1				
C100	PQCUV1H103KB	0.01	1	1.				
	Not Used		-1					
	Not Used		-1	l				
	ECUV1H223KBV		S	1	İ			
	ECUV1H332KBV	0.0033		1				
	ECEA1AK221	220	S	1	1			
	Not Used ECST1AX106	10	1	1	1			
	Not Used			' 				
	ECUV1H102KBV Not Used	1000P		1				
C140 C141~149	ECUV1H222KBV Not Used	2200P		1				
C150	ECUV1E104ZFV	0.1	1	1				
	Not Used	1	-1					
C152 C153~159	ECUV1H101JCV Not Used	100P		1				,
	Not Used	l.,						
	ECST1CY475	4.7	I	1				
	ECST0JY475 ECUV1H102KBV	4.7 1000P		1				
	ECUV1H473MDV	0.047		- 1				
C165~169								
C170	Not Used					[
	PQCUV1C105ZF	1		1				
	PQ4R10XJ000	0	-	1				
C173 C174~199	ECUV1E104ZFV Not Used	0.1		1				
C200	PQCUV1E104MD	0.1		1				
C201~249	Not Used							
C250 C251~299	PQ4R10XJ000 Not Used	o		1				
C300 C301~319	EECW5R5D473 Not Used	0.047		1				
C320	Not Used		\perp					

Ref. No.	Part No.	Part Name & Description	1	Pcs/Set	Ref. No.	Part No.	Val	ue	Pcs/Set
		RF UNIT PARTS		•	R210	ERJ3GEYJ104	100K		1
DODA	TOOL BARASSON	15 6 BG 16B 400B (BT)			R211	ERJ3GEYJ122	1.2K		1 1
PCB2	PQLP10153S	P.C.BOARD ASS'Y (RTL)		1	R212	ERJ3GEYJ561	560		1 1
		l l			R213	ERJ3GEYJ470	47		1 !
		1100			R214	ERJ3GEYJ104	100K		1 1
10004	2011110100100	(ICS)			R215	ERJ3GEYJ681	680		1
IC201	PQVIM64084GP	IC		1	R216	Not Used			
IC202	PQVIPC2746TE	ic		1	R217	Not Used			
					R218	ERJ3GEYJ820	82		1
					R219	ERJ3GEYJ123	12K		1
		(TRANSISTORS)							1
Q201	2SC4099NT106	TRANSISTOR(SI)		1	R220	ERJ3GEYJ470	47		1
Q202	2SC4099NT106	TRANSISTOR(SI)		1	R221	ERJ3GEYJ100	10		1 1
Q203	2SC4571R77	TRANSISTOR(SI)	S	1	R222	ERJ3GEYJ123	12K		1 1
Q204	2SC3356R24	TRANSISTOR(SI)		1 1	R223	ERJ3GEYJ473	47K		1 1
Q205	2SC4571R77	TRANSISTOR(SI)	S	1 1	R224	ERJ3GEYJ683	68K		1 1
Q206	2SC4226R24	TRANSISTOR(SI)		1	R225	ERJ3GEYJ470	47		1 1
				1	R226	ERJ3GEYJ470	47		1
					R227	ERJ3GEYJ390	39		I 1
		(COILS)		1 1	R228	ERJ3GEYJ681	680		1 1
L201	PQLQR2N1R0KT	COIL		1	R229	ERJ3GEYJ820	82		l i
L202	PQLQR2N1R0KT	COIL		l i l					1
L203	PQLQR2M4N7K	COIL		i	R230	ERJ3GEYJ563	56K		1
L204	PQLQR2M10NKT	COIL		l i l	R231	ERJ3GEYJ153	15K		Li
L205	PQLQR2M10NKT	COIL		1	R232	ERJ3GEYJ153	15K		l i
L206	MQLRE12NJF	COIL		1	R233	ECUV1H010CCV	1P		l i
L207	MQLRE10NJF	COIL		1	R234	ERJ3GEYJ100	10		1
L209	PQLQR2M4N7K	COIL		1	R235~239	Not Used	1.*		1 .
L210	PQLQR2M4N7K	COIL		1					
L220	PQLQR2M8N2KT	COIL		i	R240	ERJ3GEYJ272	2.7K		1 1
L221	PQLQR2M8N2KT	COIL		l i l	R241~259	Not Used	1		1 ' !
C233	PQLQR2M10NKT	COIL		i	11241 200	1101 0000			
		100.2		'	R260	Not Used			
				l i	R261	ERJ3GEYJ000	0		1 1
		(OSCILLATORS)			R262~269	Not Used	ľ		1 ' 1
VC0201	PQV016Z	OSCILLATOR		1	1.202.208				
VC0202	PQV015Z	OSCILLATOR		1	R270	ERJ3GEYJ000	О .		1
F201 F202	PQVCM21M8PJ2 PQVSM959E11L	(SAW FILTERS) CERAMIC FILTER CERAMIC FILTER		1 1					
F203	PQVSM914E11L	CERAMIC FILTER		1	1		1		
F204	EZFN914AM01	CERAMIC FILTER		1					
		(OTHERS)							
VC201	PQCVTZB10ZA	TRIMMER CAPACITOR		1	000:		(CAPACITORS)		
X201	PQVC01280K4Z	CRYSTAL OSCILLATOR		1	C201	Not Used	l		1 . 1
CN201	PQJS10A82Z	CONNECTOR		1	C202	ECSTOJX226	22		1 1
		1			C203	PQCUV1C105ZF	1		1 1
	1	1			C204	ECUV1H101JCV	100P		1 1
	l .	(C205	ECUV1H821KBV	820P		1
	1			· •	C206	Not Used			1 1
					C207	ECUV1H332KBV	0.0033		1 1
		1			C208	ECUV1H332KBV	0.0033		1 1
					C209	ECUV1E104ZFV	0.1	S	1
					C210	ECUV1H103KBV	0.01		1
		(250)27272			C211	ECST0JX226	22		1
0004	ED 10051/1555	(RESISTORS)		,	C212	ECUV1H103KBV	0.01		1 1
R201	ERJ3GEYJ220	22		1	C213	ECUV1H101JCV	100P		1 1
R202	ERJ3GEYJ680	68		1	C214	Not Used	l		
R203	ERJ3GEYJ000	0	; l	1	C215	ECUV1H040CCV	4P		1
R204	ERJ3GEYJ153	15K	3	1	C216	ECUV1H103KBV	0.01		1
R205	ERJ3GEYJ153	15K	- 1	1	C217	ECUV1H270JCV	27P		1
R206	ERJ3GEYJ563	56K		1	C218	ECUV1E104ZFV	0.1	S	1 1
R207	ERJ3GEYJ470	47		1	C219	Not Used			
R208	ERJ3GEYJ104	100K		1	1				
R209	ERJ3GEYJ272	2.7K	- 1	1	C220	ECUV1H010CCV	1P		11
1200		1	- 1			Not Used	1"		' 1

Ref. No.	Part No.	Value		Pcs/Se
C222	ECUV1H100DCV	10P		1
C223	ECUV1H270JCV	27P		1
C224	ECUV1H270JCV	27P	100	1
C225	Not Used	271		l '
C226	Not Used			
C227	ECUV1H102KBV	10000		
		1000P		1
C228	ECUV1H020CCV	2P	•	1
C229	ECUV1H102KBV	1000P	-	1
C230	ECUV1H040CCV	4P		1
2231	Not Used			
2232	ECUV1H102KBV	0.001		
234	ECUV1H020CCV	2P		1 1
				1
2235	ECUV1H101JCV	100P		1
2236	ECUV1H101JCV	100P		1
2237	Not Used			
238	ECUV1H040CCV	4P		1
239	Not Used			
2040	FOLINAL 104000V			
240	ECUV1H040CCV	4P		1
241	ECUV1H102KBV	0.001		1
242	ECUV1H102KBV	0.001		1
243	Not Used			
244	ECUV1H102KBV	0.001		1
245	ECUV1H101JCV	100P		1
246	ECUV1H020CCV	2P		1
247	ECUV1E104ZFV	0.1	s	1
248	Not Used	10	0	'
249	ECST0JX226	22		1
				•
250	Not Used			
251	ECUV1H102KBV	0.001	- 1	1
252	ECUV1C224KB	0.22	I	1
253	ECUV1H562KBV	0.0056	ł	i
254	ECUV1H562KBV	0.0056	ĺ	1
255~259	Not Used	10.0000	l	,
260	Not Used		ı	
261	Not Used		ı	
262	ECUV1H101JCV	100P	l	1
208	ECUV1H101JCV	100P		1
		1		
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	REPLAC	EMENT	PARTS	LIST		Ref. No.	Part No.	Part Name & Description	ŀ	Pcs/Se
1 DTI (Do	stantion Time Lim	itod\	Model K	X-T9310DN	/IR		<u>* </u>	MAIN P.C.BOARD PARTS		
Note: The	etention Time Lim marking (RTL) in or the discontinu	dicates that the lation of this asse	mbly in product	tion, the item wi	ill	PCB100	PQWPT9310DMR	P.C.BOARD ASS'Y (RTL)		1
of a	tinue to be availa availability depen ts and product r	ds on the type of	assembly and	the laws gover	ing	IIC1	AN6159NFA	(ICS)		
will	no longer be ava		end of this pend	ou, the assembl	у	IC2	PQVIXC3002MR	IC IC		1
	nt safety notice nents identified b	v the ⊿∖ mark i	indicates specia	al characteristic	s	IC3 IC4	PQVIA8184SLT PQVISC78184D	IC IC		1
importar	nt for safety. What manufacturer's	en replacing any	-			IC5 IC6	PQVI93LC46XI PQVI4829C23H	IC IC		1
3. The S m	nark indicates se	vice standard pa	irts and may dif	ffer from produc	tion					
4. RESIST	ORS & CAPACIT							(TRANSISTORS)		
	otherwise specifi tors are in ohms	•	/=1000KΩ			Q1 Q5	2SD1328 PQVTDTC143E	TRANSISTOR(SI) TRANSISTOR(SI)		1 1
Ali capad	citors are in MICI	RO FARADS (μΕ				Q6	2SC4116	TRANSISTOR(SI)		. 1
*Type & Type	Wattage of Resi	stor				Q7 Q9	2SC4116 2SB1218A	TRANSISTOR(SI) TRANSISTOR(SI)		1
ERC:Soli		RX:Metal Film		4R:Carbon		Q11	PQVTDTC143E	TRANSISTOR(SI)		i
ERD:Cart		RG:Metal Oxide R0:Metal Film		5:Fusible Resis F:Cement Resis		Q12 Q13	PQVTDTC143E PQVTDTA143EU	TRANSISTOR(SI) TRANSISTOR(SI)		1
Wattage				.Oemon Hous	101	Q14	PQVTDTB123E	TRANSISTOR(SI)		1
10,16:1/8	W 14,25: Voltage of Capa		W 1:1\	W 2:2W	3:3W	Q15 Q16	2SD1819A POVTDTB123E	TRANSISTOR(SI)		1
Type &	voltage of Capa	жог				Q16	PQVTDTB123E	TRANSISTOR(SI) TRANSISTOR(SI)		1
	mi-Conductor		KD,ECBT,PQCI			Q18	PQVTDTA143EU	TRANSISTOR(SI)		1
PQCUV:	•		QV,ECQG : Pol SZ : Electrolytic	•		Q19 Q21	2SD1819A PQVTDTC144TU	TRANSISTOR(SI) TRANSISTOR(SI)	s	1
ECQMS:	Mica		olypropylene							•
Voltage ECQ Type		ECSZ Typ	el	Others				(DIODE(SI)		
	ECQV Ty					D1	MA8150	DIODE(SI)		1
1H: 50V 2A:100V	05: 50V 1:100V	0F:3.15V 1A:10V	0J :6.3V 1A :10V	1V :35 50,1H:50		D3 D5	MA110 PQVDRB751H4	DIODE(SI) DIODE(SI)		1
2E:250V	2:200V	1V:35V	1C :16V	1J :63		D11	MA729	DIODE(SI)		1
2H:500V		0J:6.3V	1E,25:25V	2A :10	0V	D12 D13	MA729 MA729	DIODE(SI)		1
Ref. No.	Part No.	Pa	rt Name & Des	cription	Pcs/Set	D13	MA729	DIODE(SI) DIODE(SI)		1
		0.000	COTDION DA	570		D15	MA110	DIODE(SI)		1
ŀ		CABINET & EL	LECTRICAL PA	IHIS		D16 D17	MA8039 MA110	DIODE(SI) DIODE(SI)	1	1
	PQYM10046Z1	FRONT CA			1					
102 103	PQKF10119Z1 PQSA808X	REAR CAI			1 1			(VARIABLE RESISTORS)		
104	XWC26BFN	WASHER			1		EVM1YSX50B24	VARIABLE RESISTOR		1
	PQSX10016Z1 PQBD10032Z1	BUTTON, I	KEY PAD POWER/RINGE	R S	1	VR3 VR4	EVM1YSX50B54 EVM1SSX50B53	VARIABLE RESISTOR VARIABLE RESISTOR		1
107	PQAX3P19Z	SPEAKER			1					
	PQEFBQM111G PQJM122Z	1 BUZZER MICROPHI	ONE	S	1			(CRYSTAL OSCILLATORS)		
110	PQJT10085Z		TERMINAL	s	3	X1	PQVCE2094N4R	CRYSTAL OSCILLATORS		1
	PQJT10086Z		TERMINAL		2	X3 X4	POVCE2276NOZ	CRYSTAL OSCILLATOR		1
	PQHX10085Z PQKE10038Z1	ID COVER HANGER			1	^4	PQVCE3276N9Z	CRYSTAL OSCILLATOR		1
114	PQHG10300Z	SPACER	(SPEAKER)		1			(OMETOLI)		
	PQHG10286Z PQHX10503Z	SPACER SPACER			1	S1	ESD11H120	(SWITCH) SWITCH, POWER		1
117	PQHG10326Z	SPACER	. ,	İ	1					-
	XTN26+6J XTW26+12F	SCREW			2			(CONNECTORS)		
	PQHX10508Z	INSULATO	R	•	1	CN1	PQJP10B01Z	CONNECTOR		1
121	PQGT12184Z	NAME PL	ATE .		1	CN2	PQJS36A62Z	CONNECTOR		1
						E4	DOMESEDOVEEL	(CERAMIC FILTERS)		1
				1		F1 L1	PQVFSFPC455E PQVFCDBC455M	CERAMIC FILTER CERAMIC FILTER		1

Ref. No.	Part No.	Part Name & Description	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
		(RESISTORS)		R67	ERJ3GEYJ474	470K	1
R1	ERJ3GEYJ684	680K	1	R68	Not Used		
R2	ERJ3GEYJ100	10	1	R69	Not Used		
R3	ECUV1H472KBV	0.0047	1	11	1		
R4	ERJ3GEYJ332	3.3K	1	R70	Not Used		- 1
R5	ERJ3GEYJ393	39K	1	R71	PQ4R10XJ000	0	1
R6	Not Used			R72	PQ4R10XJ000	О	1
R7	ERJ3GEYJ473	47K	1	R73	PQ4R10XJ221	220	1
R8	ERJ3GEYJ473	47K	1	R74~78	Not Used	1	- 1
R9 .	ERJ3GEYJ183	18K	1	R79	ERJ3GEYJ103	10K	1
R10	ERJ3GEYJ183	18K	1	R80	ERJ3GEYJ104	100K	1
R11	ERJ3GEYJ683	68K	1	R81	ERJ3GEYJ683	68K	1
R12	ERJ3GEYJ823	82K	1 1	R82~86	Not Used		
R13	ERJ3GEYJ222	2.2K	1 1	R87	ERJ3GEYJ100	10	1
R14	ERJ3GEYJ000	0	1 1	R88	ERJ3GEYJ103	10K	1 1
R15	ERJ3GEYJ104	100K	1 1	R89	ERJ3GEYJ103	10K	1 1
R16	ERJ3GEYJ473	47K	1 1				
R17	Not Used			R90	ERJ3GEYJ104	100K	1
R18	ERJ3GEYJ564	560K	1	R91	ERJ3GEYJ104	100K	
R19	ERJ3GEYJ103	10K	1	R92	ERJ3GEYJ104	100K	1 1
			'	R93	ERJ3GEYJ104	100K	
R20	ERJ3GEYJ183	18K	1 1	R94	ERJ3GEYJ103	10K	
R21	ERJ3GEYJ223	22K		R95		10K	1 .
R22	ERJ3GEYJ183	18K		R96	ERJ3GEYJ103 ERJ3GEYJ000		1 !
R23	ERJ3GEYJ183 ERJ3GEYJ104	100K		R96	ERJ3GEYJ000	0	1 !
						1.	1 1
R24	ERJ3GEYJ184	180K	1 1	R98	ERJ3GEYJ000	0	1 1
R25	ERJ3GEYJ823	82K	1 1	R99	ERJ3GEYJ000	0	1
R26	ERJ3GEYJ333	33K	1 1				
R27	ERJ3GEYJ000	0	1	R100	ERJ3GEYJ101	100	1 1
R28	ERJ3GEYJ562	5.6K	1	R101	ERJ3GEYJ101	100	1
R29	ERJ3GEYJ472	4.7K	1	R102	ERJ3GEYJ101	100	1
				R103	ERJ3GEYJ101	100	1
R30	ERJ3GEYJ274	270K	1	R104	ERJ3GEYJ100	10	1 1
R31	ERJ3GEYJ103	10K	1	R105	Not Used	1	1
R32	Not Used			R106	ERJ3GEYJ820	82	1 1
₹33	ERJ3GEYJ222	2.2K	1 1	R107	ERJ3GEYJ220	22	1 1
R34~36	Not Used	}	1 1	R108	ERJ3GEYJ101	100	1 1
37	ERJ3GEY0R00	0	1 1	R109	Not Used		
388	ERJ3GEYJ105	1M	1 1			1	i i
39	ERJ3GEYJ102	1K	1 1	R110	ERJ3GEYJ102	1K	1 1
				R111	Not Used		1 1
340	Not Used			R112	ERJ3GEYJ102	1K	1 1
	ERJ3GEYJ100	10	- 1	R113	ERJ3GEYJ102	1K	1 1
142	ERJ3GEYJ100	10	i 1	R114	Not Used	I	1 1
343	Not Used		' 1	R115	Not Used		1 1
	ERJ3GEYJ100	10	1	R116	ERJ3GEYJ224	220K	1 1
	ERJ3GEYJ100	10	lil	R117	ERJ3GEYJ271	270	
	ERJ3GEYJ102	1K	1 1	R118	ERJ3GEYJ392	3.9K	1 ; 1
		1K		R119		5.50	' '
	ERJ3GEYJ102		1 1	Lina	Not Used		
	ERJ3GEYJ102	1K	1 1	D400	DO4D40V 1000	ام	
149	ERJ3GEYJ102	1K	1	R120	PQ4R10XJ000	0	
			l	R121	PQ4R10XJ000	0	1 1
	Not Used	1		R122	Not Used		, l
	ERJ2GEJ124	120K	1	R123	ERJ3GEYJ102	1K	1
	Not Used			R124	ERJ3GEYJ102	1K	1 1
153	ERJ2GEJ563	56K	1	R125	ERJ3GEYJ102	1K	1
	Not Used			R126	ERJ3GEYJ102	1K	1 1
	ERJ3GEYJ273	27K	1	R127	ERJ3GEYJ102	1K	1 1
	Not Used			R128	ERJ3GEYJ000	0	1 1
	ERJ2GEJ153	15K	1	R129	Not Used	1	'
	Not Used	[]		1			
	Not Used			R130	ERJ3GEYJ562	5.6K	1
	1101 0300			R131	ERJ3GEYJ000	0	
	ED 100EV 1400	112					1 !
1	ERJ3GEYJ102	1K	1	R132	ERJ3GEYJ000	0	1
	ERJ3GEYJ102	1K	1	R133~139	Not Used	1	
	ERJ3GEYJ222	2.2K	1	L	l		
163	ERJ3GEYJ334	330K	1	R140~148	1		
164	ERJ3GEYJ103	10K	1	R149	ERJ3GEYJ183	18K	1
65	ERJ3GEYJ472	4.7K	1	1		1	1 1
		120K	1	IDIEN 150	Not Used	1	1 1

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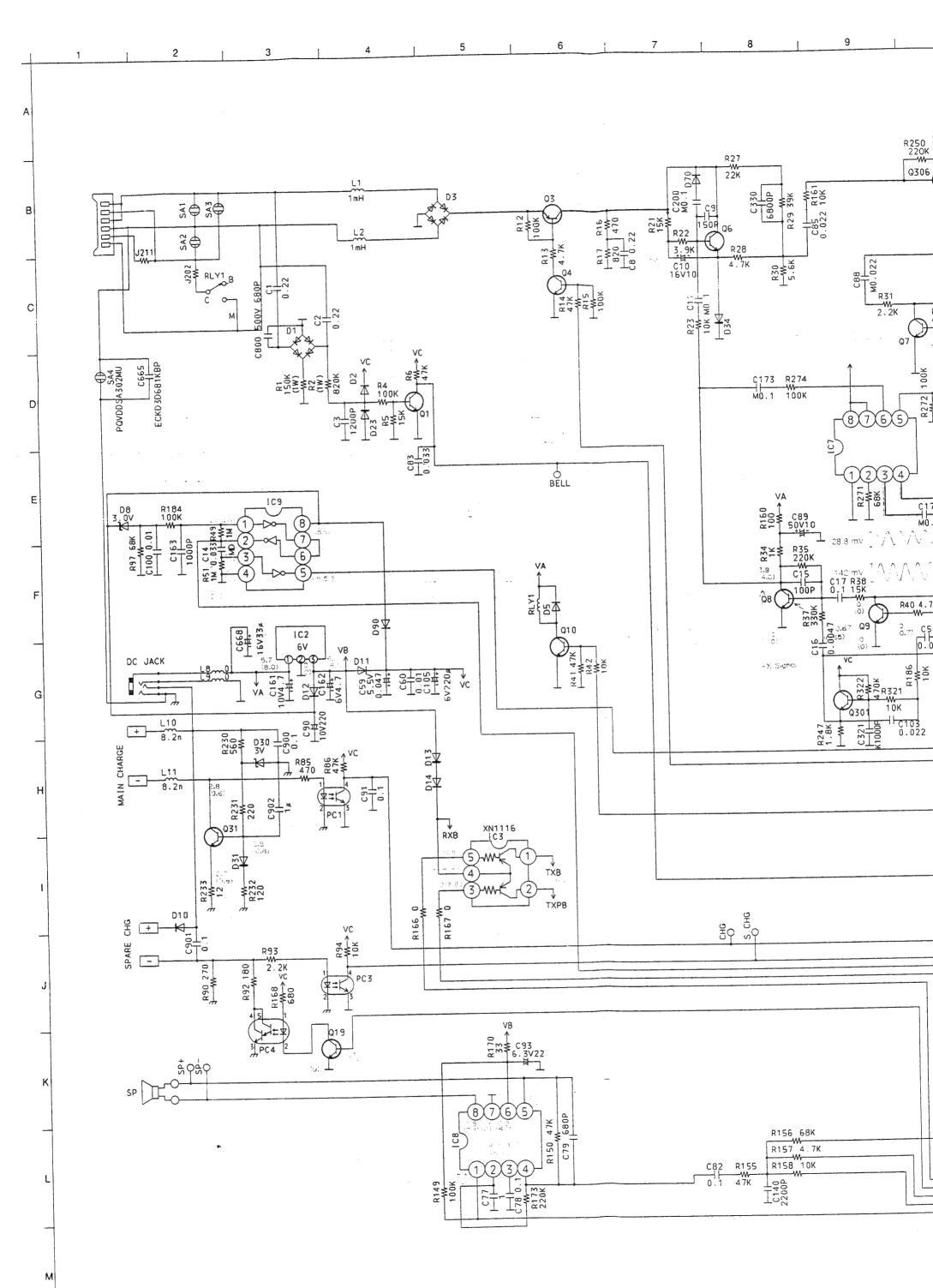
	Ref. No. Part No.		Part No. Value		Pcs/Set	Ref. N	o. Pa	Part No.		Value		/Set
	R153 R154	ERJ3GEYJ000	0		1	R329	ERJ2GEJ	103	10K	<u></u>	-	
	R155	Not Used ERJ3GEYJ823	0014			11						
	R156	Not Used	82K		1	R330	ERJ2GEJ1		10K		1	1
	R157	ERJ3GEYJ000	o			R331	ERJ2GEJ1		10K		1	
	R158	Not Used	ľ		1	R332	ERJ2GEJ1		10K		1	
- 1	R159	ERJ3GEYJ103	104			R333	ERJ2GEJ1		10K		1 1	1
	n ioa	EnJourn 103	10K		1	R334	ERJ2GEJ1	103	10K		1	,
- 1	R160~163	Not Used	- 1			R335	ERJ2GEJ1		10K		- 1 1	, 1
	R160~103		40015			R336	ERJ2GEJ1	103	10K		1	
- 1		ERJ3GEYJ184	180K		1 1			1				
	R165	ERJ3GEYJ183	18K		1 1							- 1
- 1	R166	ERJ3GEYJ152	1.5K		1 1							
	R167	ERJ3GEYJ562	5.6K		1 1	1			CAPACITO	DC)		- 1
	R168	ERJ3GEYJ000	О		1 1	C1	ECST0GX4		16	no)	1.	- 1
- [1	R169	ERJ3GEYJ000	О		1	C2	ERJ3GEYJ		3.9K		1 1	- 1
-1					1 1	C3	PQCUV1E).1		1 1	- 1
ļ.	R170	Not Used			1 1	C4	PQCUV1E). t).1		1 1	
- 1	R171	Not Used				C5	ECUV1H12				1	- 1
Jr	R172	ERJ3GEYJ222	2.2K		1	C6	ECUV1H12	1).012		1	
- Jr	7173	ERJ3GEYJ101	100			C7			0.012		1 1	- 1
F	3174	ERJ3GEYJ222	2.2K		i	C8	PQCUV1C		.22	S		
	R175	ERJ3GEYJ102	1K			C9	ECSTOJY1		0	S	1	
	R176	ERJ3GEYJ104	100K			Ca	ECST0JY3	35	3.3		1	- 1
	R177	ERJ3GEYJ152	1.5K			1040					1	- 1
	3178	ERJ3GEYJ000	0		1 1	C10	PQCUV1E1		.1		1	- 1
	179	ERJ3GEYJ102	1K		1 1	C11	ECST0GY2		2		1	
ľ		LINOGETOTOE	IIK.		1	C12	PQCUV1E1		.1	s	1 1	- 1
le.	180	ERJ3GEYJ824				C13	ECUV1H22		2P		1 1	ı
	1181	ERJ3GEYJ681	820K		1	C14	ECUV1H18		8P		1	- 1
	1182	ERJ3GEYJ102	680		1	C15	ECUV1H10		.001		1 1	- 1
	1183	ERJ3GEYJ102	1K		1	C16	ECUV1H15		.015	S	1	
	1184~189		10K		1	C17	ECUV1H15		.015	s	1 1	
ľ	1104~108	Not Used	1			C18	ECUV1H10	1JCV 1	90P		1 1	- 1
-	190~194	Net Llead				C19	ECUV1H10	2KBV 0	.001		1	
	1195	Not Used										- [
		ERJ3GEYJ000	0		1	C20	PQCUV1H1	05JC 1		s	1 1	- 1
	196	ERJ3GEYJ102	1K		1	C21	ECUV1H82	2KBV 0.	0082	-	1 1	
	197	PQ4R10XJ221	220		1	C22	ECST0JX22	6 2	2		li	
	198	Not Used	1		ı i	C23	PQCUV1E1				1	
IR	199	Not Used	i	1		C24	PQCUV1E1				1 ;	
L						C25	ECUV1H103		01	s	1	- 1
		Not Used				C26	PQCUV1H1		01	s	Li	-
		ERJ2GEJ103	10K	1	1	C27	PQCUV1H2		022	9		- [
	302	ERJ2GEJ103	10K		1	C28	ECST0JY47				1	
		ERJ2GEJ103	10K		1	C29	ECST0JY10		•			
	304	ERJ2GEJ103	10K		1			~		S	1 1	
R	305	ERJ2GEJ103	10K		1	C30	ECSTOJY47	5 4.	7			-
R		ERJ2GEJ103	10K		1	C31	PQCUV1E10	- "			1	1
R	307	ERJ2GEJ103	10K		i	C32	ECSTOJY10			_	1 !	
R	308	ERJ2GEJ103	10K		1	C33	PQCUV1E10			S	1	-1
R	309	ERJ2GEJ103	10K	-	i	C34	PQCUV1H1		7		1	
	ĺ		1		'	C35				S	1	1
R	310	ERJ2GEJ103	10K		1	C36	PQCUV1H10		•	S	1	
RS		ERJ2GEJ103	10K	1			ECST0JY10			S	1	1
		ERJ2GEJ103	10K		1	C37	PQCUV1E10		I		1	
		ERJ2GEJ103	10K	i	1	C38	PQ4R10XJ00	00			1	
		ERJ2GEJ103	10K		1	C39	Not Used	ļ			i	1
		ERJ2GEJ103		ľ	1	_	1					1
RЗ		ERJ2GEJ103	10K		1	C40	ECUV1H180.		P		1	
R3		ERJ2GEJ103	10K	1	1	C41	PQCUV1H10	3KB 0.0	11	s	1	
R3			10K	Ī		C42	Not Used					1
R3		ERJ2GEJ103	10K	1		C43	PQCUV1E10	4MD 0.1		S	1	1
٦	19	ERJ2GEJ103	10K	i	1	C44	ECUV1H1042	ZFV 0.1		S	1	
موا	20	TD 1005 Her	I			C45	ECUV1H103F			Š	1	J
		RJ2GEJ103	10K	1	1 [C46	Not Used			ı ı	•	1
R3	- 1	ERJ2GEJ103	10K		1	C47	ECEA0JK22	1 220)	s	1	1
R3:		RJ2GEJ103	10K		1	C48	Not Used		-	3	'	1
R3:		ERJ2GEJ103	10K	i		C49	ECST0GY226	22		ļ	4	1
R32	- 1	RJ2GEJ103	10K	j	1					1	1	1
R32		RJ2GEJ103	10K			C50	ECST0JY106			_ 1		1
200	26 F	RJ2GEJ103	10K	ļ		C51	ECST031106	1.0		s	1	1
R32	1-											
R32	1	RJ2GEJ103	10K	1		C52~59	Not Used	22		ļ	1	1

Ref. No.	Part No.	Value		Pcs/Set	Ref. No.	. Part No.	Value		Pcs/Se
C60	Not Used					RF UNIT PARTS			
C61 C62	ECUV1H180JCV ECST0JX226	18P		1					
C63	PQCUV1H683MD	22 0.068		1 1	PCB200	PQLP10154S	P.C.BOARD ASS'T (RTL)		1
C64	PQCUV1H105JC	1	S	1	1				
C65	PQCUV1H473MD	0.047	3				(100)		İ
C66	ECST0JY106	10	s		IC201	PQVIM64084GP	(ICS)		1
C67	PQCUV1H105JC	1	s	i	IC202	PQVIPC2746TE	ic		li
C68	PQCUV1H105JC]1	S	1] '
C69	PQCUV1H105JC	[1	s	1	1.				i
					1		(TRANSISTORS)		
C70	PQCUV1H105JC	1	S	-1	Q201	2SC4099NT106	TRANSISTOR(SI)		1 1
C71	ECUV1H222KBV	0.0022		1 1	Q202	2SC4099NT106	TRANSISTOR(SI)		1
C72 C73	Not Used Not Used				Q203	2SC4571R77	TRANSISTOR(SI)	S	1
C74	ECUV1H68OJCV	68P			Q204	2SC3356R24	TRANSISTOR(SI)		1
C75	Not Used	COP		1	Q205 Q206	2SC4571R77	TRANSISTOR(SI)	S	1
C76	ECUV1H153KBV	0.015	S	1	U206	2SC4226R24	TRANSISTOR(SI)		1
C77	ECST0JX226	22		i	1	f			İ
C78	PQCUV1H105JC	1	s	1			(COILS)		!
C79	Not Used	.]			L201	PQLQR2N1R0KT	COIL		1
			ĺ		L202	PQLQR2N1R0KT	COIL		
C80	PQ4R10XJ000	О		1	L203	PQLQR2M4N7K	COIL		1
C81	PQCUV1H105JC	1	S	1	L204	MQLRE10NJF	COIL		1
C82 C83~99	PQCUV1H105JC Not Used	1	S	1	L206	MQLRE12NJF	COIL		1
C03~99	Not Osed	· ·			L207	MQLRE10NJF	COIL		1
C100	PQCUV1H105JC	1	s	1	L208 L209	MQLRE10NJF	COIL		1
C101~199		1	٦	' 1	L210	PQLQR2M4N7K PQLQR2M4N7K	COIL		1 1
				- 1	L213	PQLQR2M4N7K	COIL		1
C200	ECUV1H100DCV	10P	s	1	L220	MQLREIONJF	COIL		1
	ECUV1H104ZFV	0.1	S	1 4	L221	PQLQR2M8N2KT	COIL		i
C202	ECUV1H561JCV	560P		1	C233	MQLRE10NJF	COIL		1
J1	ECUV1H222KBV	0.000					1		
"	ECOVINZZZNOV	0.0022		1				- 1	
					VC0201	PQV022Z	(OSCILLATORS) OSCILLATOR	- 1	
			- 1			PQV021Z	OSCILLATOR		1
i			- 1				OCCILEATOR		' I
		 						- 1	
		·	- 1				(SAW FILTERS)	ŀ	- 1
					F201	PQVCM21M8PJ2	CERAMIC FILTER		1
					F202	PQVSM914E11L	CERAMIC FILTER		1
	· ·		- 1	- 1	F203 F204	PQVSM959E11L	CERAMIC FILTER		1
i					F204	EZFN959AM01	CERAMIC FILTER		1
			- 1		1 1			ı	ł
i							(OTHERS)		
				- 1	VC201	PQCVTZB10ZA	TRIMMER CAPACITOR	- [1
i				- 1		PQVC01280N4Z	CRYSTAL OSCILLATOR		i
				1.	CN201	PQJS10A82Z	CONNECTOR		1
i									
			- 1]				
							1		
ł				1				- 1	
									- 1
1				ľ	1. [1		1
			- 1						j
ı				Ţ,	1 1			1	- 1
- 1							(RESISTORS)		j
1						ERJ3GEYJ100	10		1
.	. 1					ERJ3GEYJ150	15		1
11						ERJ3GEYJ102	1K		1
ð						ERJ3GEYJ153	15K		1
						ERJ3GEYJ153	15K		1
						ERJ3GEYJ563	56K	1	1
	1								
						ERJ3GEYJ470	47		1
					R208	ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ272	47 100K 2.7K		1

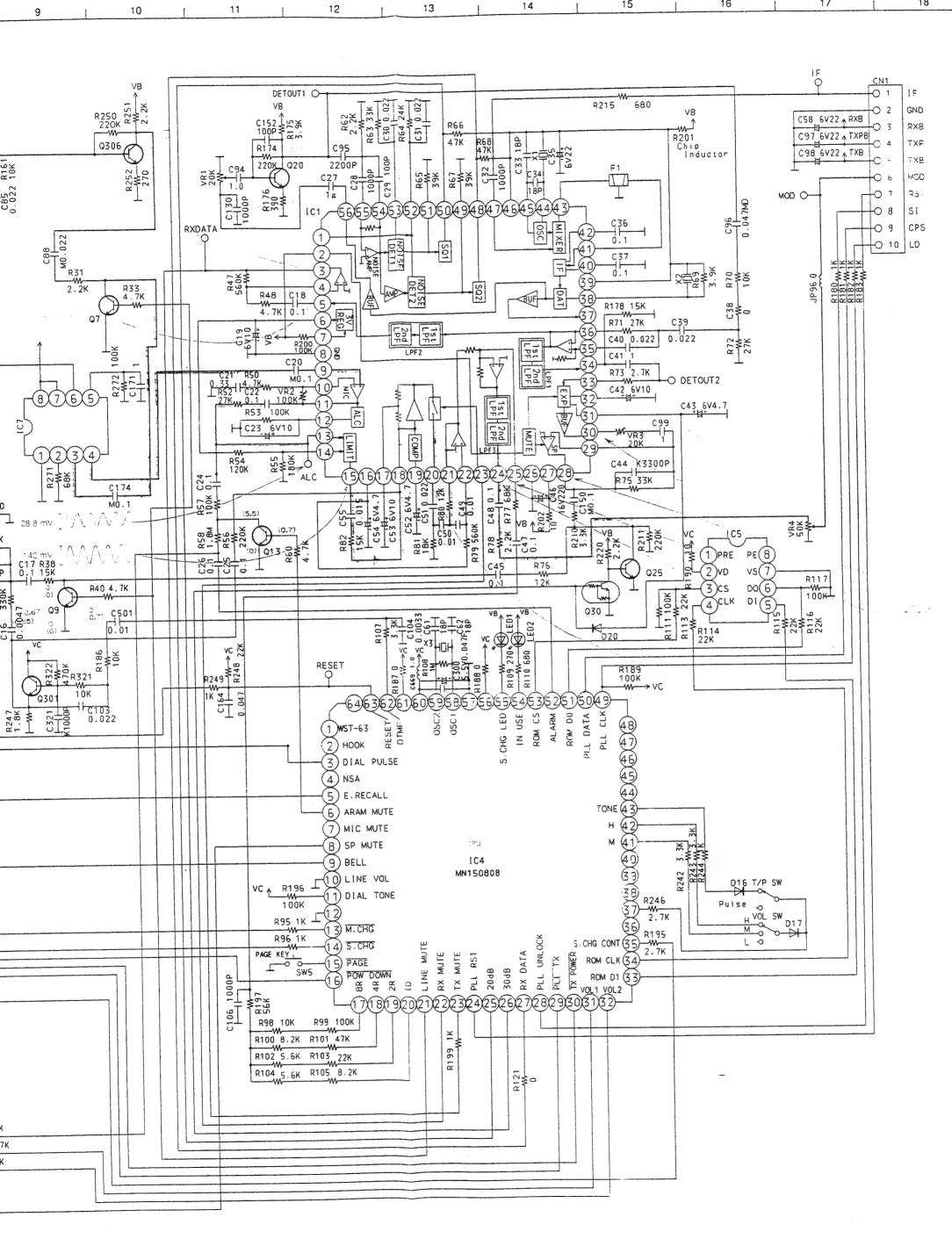
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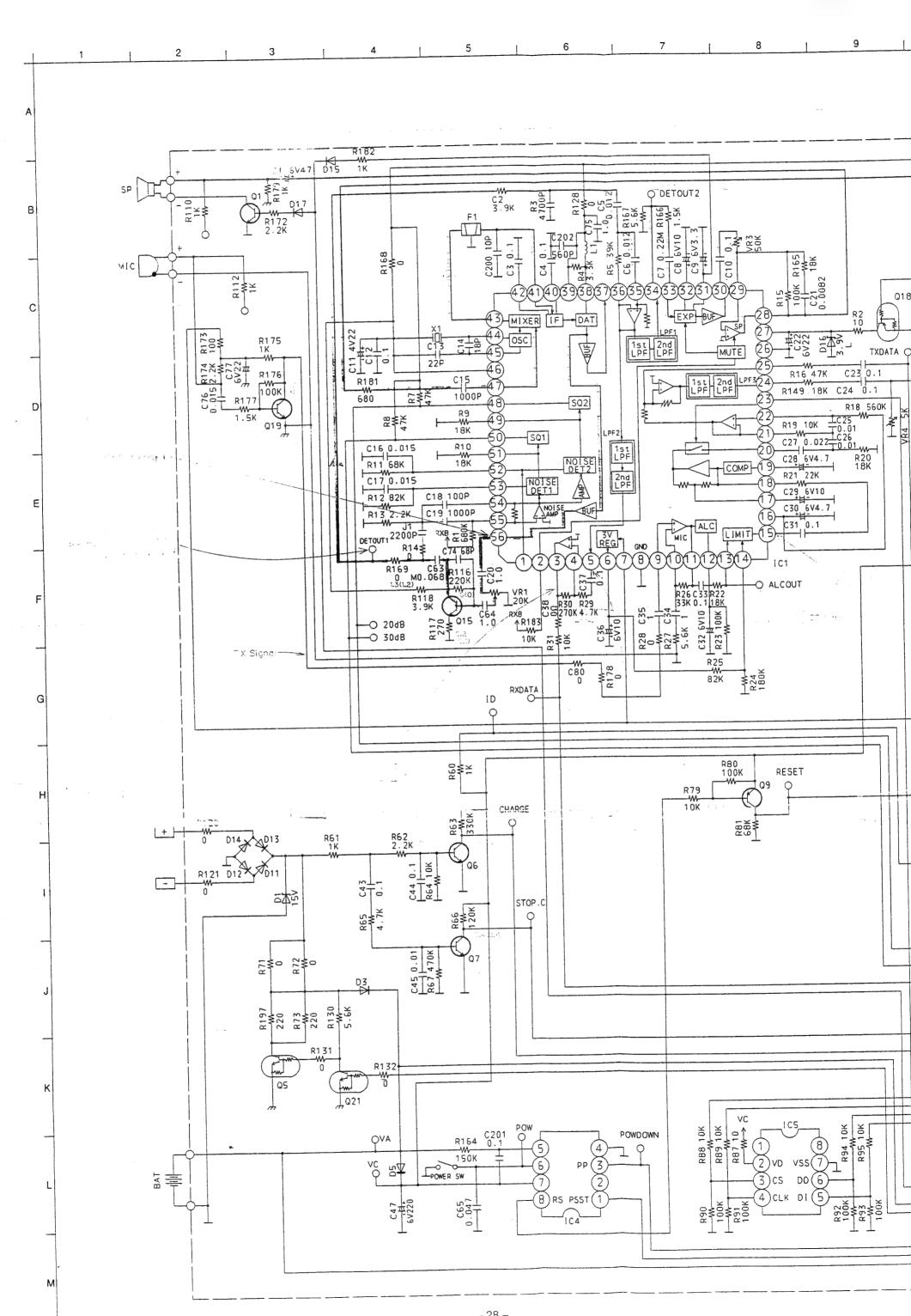
Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	1	Value	Pcs/Set
R210	ERJ3GEYJ104	100K	1	C220	ECUV1H020CCV	2P		1
R211	ERJ3GEYJ122	1.2K	1 1 1	C221	Not Used			
R212	ERJ3GEYJ561	560	1 -	C222	ECUV1H100DCV	10P	S	1
R213	ERJ3GEYJ470	47	1	C223	ECUV1H270JUV	27P		Li
R214	ERJ3GEYJ104	100K	1	C224	ECUV1H270JUV	27P		1
R215	ERJ3GEYJ561	560	1 1	C225	Not Used			
R216	Not Used			C226	Not Used			ł
R217	Not Used			C227	ECUV1H102KBV	0.001		1
R218	ERJ3GEYJ000	0	1 1	C228	ECUV1H040CCV	4P		1
R219	ERJ3GEYJ123	12K	i	C229	ECUV1H102KBV	0.001		1
		·						
R220	ERJ3GEYJ470	47	1	C230	ECUV1H040CCV	4P		1
R221	ERJ3GEYJ100	10	1 1	C231	Not Used			l
R222	ERJ3GEYJ103	10K	1.	C232	ECUV1H102KBV	0.001		1
R223	ERJ3GEYJ683	68K	1 -	C234	Not Used			
R224	ERJ3GEYJ683	68K	1	C235	ECUV1H101JCV	100P		1
R225	ERJ3GEYJ470	47	1	C236	Not Used	l		
R226	ERJ3GEYJ470	47	1	C237	Not Used		* * * * * * * * * * * * * * * * * * *	
R227	ERJ3GEYJ100	10	1 1	C238	ECUV1H040CCV	4P		1
R228	ERJ3GEYJ561	560	1 1	C239	ECUV1H020CCV	2P		1
R229	ERJ3GEYJ560	56		1		I		· '
				C240	ECUV1H040CCV	4P		1
R230	ERJ3GEYJ563	56K	1 1	C241	ECUV1H102KBV	0.001		1
R231	ERJ3GEYJ153	15K	i	C242	ECUV1H102KBV	0.001		1
R232	ERJ3GEYJ153	15K		C243	Not Used	13.001		'
R233	ERJ3GEYJ470	47		C244	ECUV1H102KBV	0.001		1.
R234	ERJ3GEYJ100	10	1	C245	ECUV1H101JCV	100P		
R235~239	Not Used	10	'		ECUV1H020CCV			1
n235~239	Not Osed	· ·		C246		2P		. 1
D040	ED 100EV 1070	0.714			ECUV1E104ZFV	0.1	s	1
R240	ERJ3GEYJ272	2.7K	1	C248	Not Used			
R241~259	Not Used			C249	ECST0JX226	22	s	1
R260	Not Used			C250	Not Used	l l		
R261	ERJ3GEYJ000	o	1	1		0.004		,
		0	'	C251	ECUV1H102KBV	0.001		
R262~269	Not Used	1	1	C252	ECUV1C224KB	0.22		1
D070	ED IOCEVIOOS			C253	ECUV1H562KBV	0.0056		1
R270	ERJ3GEYJ000	0	1	C254	ECUV1H562KBV	0.0056	İ	1
				C255~259	Not Used			
				C260	Not Used			
	ļ			1	Not Used		ĺ	
	1					4000		_ ,
İ	1			C262	ECUV1H101JCV	100P	, 1	1
	Ì			L205	ECUV1H101JCV	100P		- 1
								·
		,						
		(CAPACITORS)	j					
C200	ECUV1H101JCV	100P	1 .					1
C201	Not Used	1.00	' '	1 1			1	ŀ
C201	ECSTOJX226	22 S	' , I	j				
C202	PQCUV1C105ZF	1	1				ŀ	
C203 C204	ECUV1H101JCV	100P	1					l
		1	1	1				[
C205	ECUV1H332KBV	0.0033	1	Į	}		l	
	ECUV1H472KBV	0.0047	1	1	}		Į	Į
C207	ECUV1H332KBV	0.0033	1	1				1
C208	ECUV1H332KBV	0.0033	1 1	1			l	I
C209	ECUV1E104ZFV	0.1 S	1					- 1
0010	FOLIVALIA COMPL	lo at	_ , _ [ŀ	
C210	ECUV1H103KBV	0.01	1	Į I	İ			- 1
	ECSTOJX226	22 \$	1	1				
_	ECUV1H103KBV	0.01	1	1				ŀ
_	ECUV1H101JCV	100P	1					ŀ
	Not Used	1]				
	ECUV1H040CCV	4P	1	1 1				ľ
	ECUV1H103KBV	0.01	1		İ			ľ
	ECUV1H270JCV	27P	1	1 . 1				- 1
C217			- 1				ľ	
	ECUV1E104ZFV	0.1 S	1	1			I	I
C218		0.1 S	1					

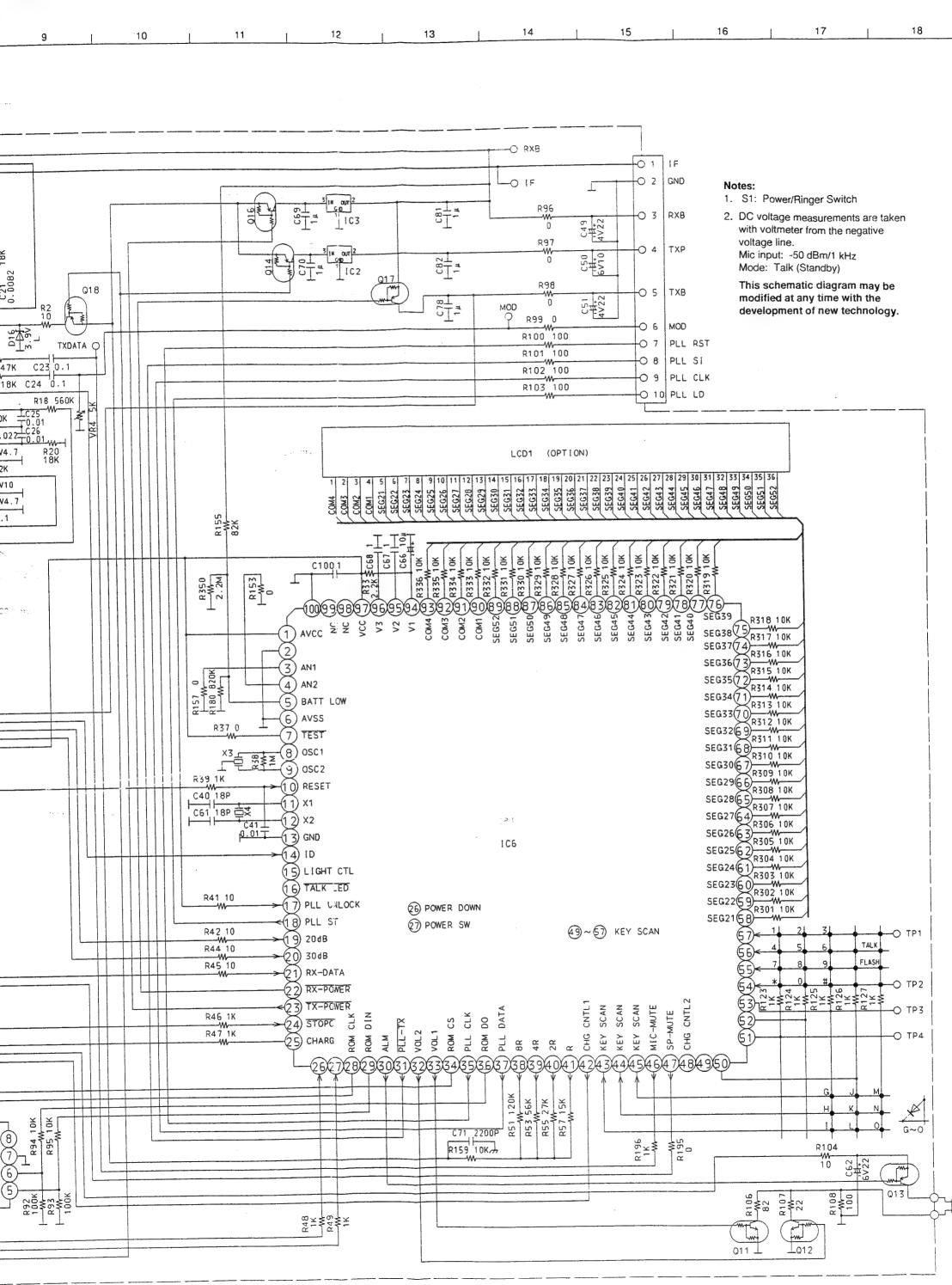
Ref. No.	Part No.	Part Name & Description	Pcs/Set
		KX-T9310DM	
		ACCESSORIES	
A1	KX-A35G-1	AC ADAPTOR A	1
A2	PQJA10032Z	TELEPHONE CORD	1
A3	PQKC10003Z1	BELT CLIP S	1
A4	PQKK10045Z1	BATTERY COVER S (for BASE UNIT)	1
A5	PQKK10046Z1	BATTERY COVER 5	1
		(for PORTABLE UNIT)	
A6	PQQX11657Z	INSTRUCTION BOOK	1 1
A7	G G G C T T G G T E		
8A	PQQT11240Z	TEL CARD LABEL	1
		PACKING MATERIALS	
Pi	IPOPP10076Z	PROTECTION COVER	T 1
F 1	PQPP100762	(for BASE UNIT)	
P2	VZD40V0EA00	PROTECTION COVER	1 .
P2	XZB10X25A02	(for PORTABLE UNIT)	'
P3	PQPN10362Z	INNER BOX	1
P4	PQPN10363Z	ACCESSORY BOX	1
P5	PQPK12187Z	GIFT BOX	1
		FIXTURE AND TOOL	
Z1	PQZZ10K13Z	EXTENSION CORD, 10P	2
Note: POZZ10K	13Z is neccessity for	or servicing.	



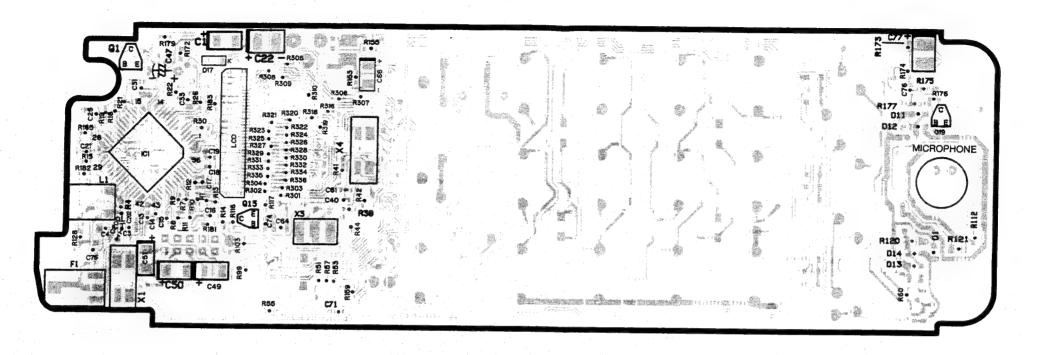
- 26 -

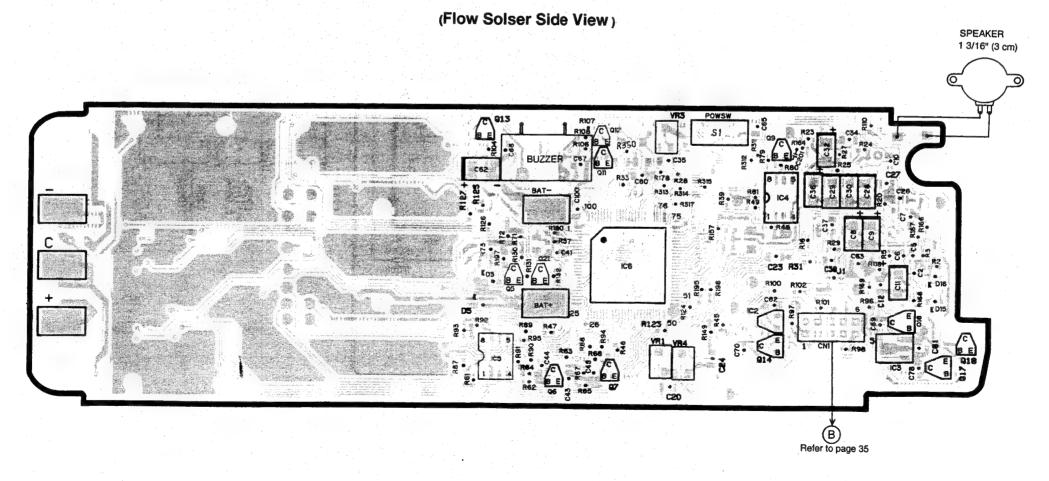






(Component View)





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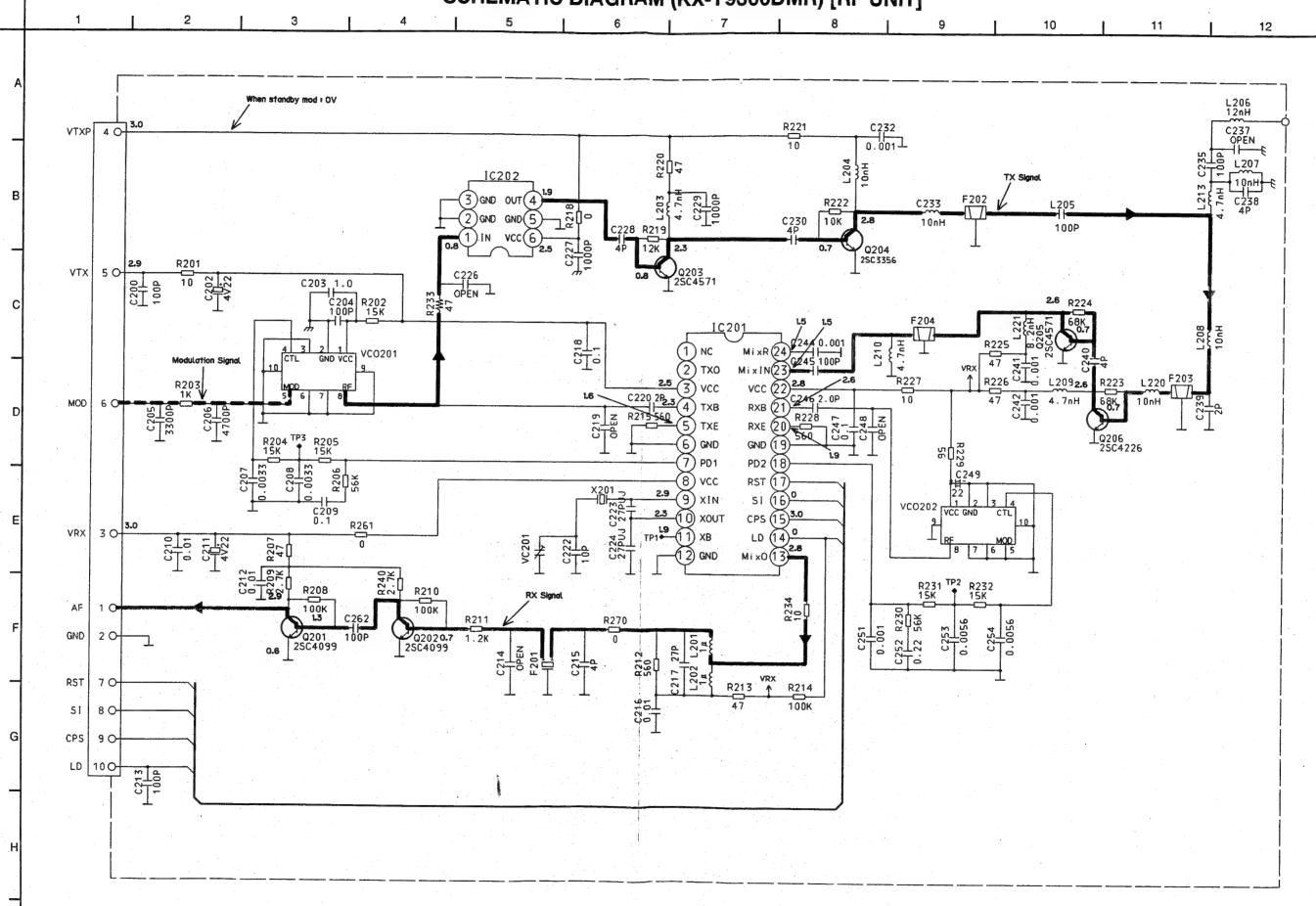
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11

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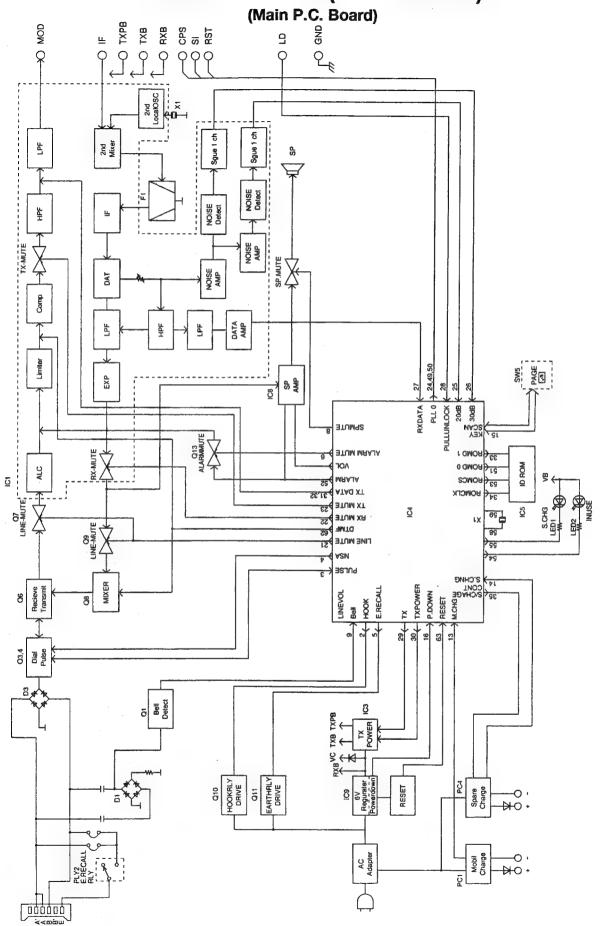
KX-T9300DM KX-T9300DM

SCHEMATIC DIAGRAM (KX-T9300DMR) [RF UNIT]

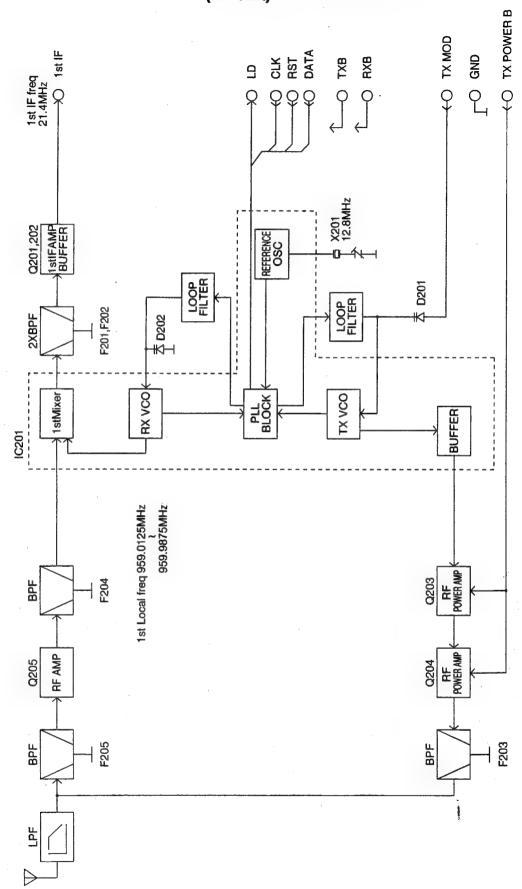


CIRCUIT BOARD (KX-T9300DMR) [RF UNIT] x201 C202 F270 В VC201 C246 • R229 C231 C237 L206 L213 C538 Ε R211 R210 C213 CN 201 9 C553 •C555 R205 C208 R203 C253 R230 R228 0205 R227. C218 R226 L209 C233• G Н

BLOCK DIAGRAM (KX-T9300DMH)



BLOCK DIAGRAM (KX-T9300DMH) (RF Unit)

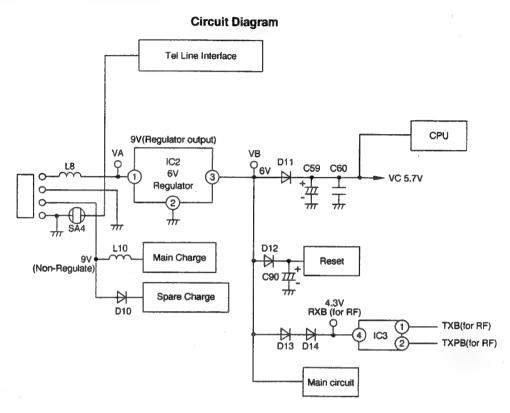


NEW CIRCUIT OPERATION (KX-T9300DMH)

Main Unit

1. Power Supply Circuit

The voltage DC 9 V (regulate output), DC 9 V (non-regulate output) are supplied to the DC jack from the AC adaptor. The 9 V regulate output is supplied to the line interface circuit and IC2 (6 V regulater). The voltage through IC2 is stabilized to 6 V is supplied to the reset circuit and main circuit. The power for CPU is supplied through D11 at 5.7 V. The power for RF unit is supplied through D13, D14 at 4.3V.



2. Charge Circuit

2-1. Portable Handset Power Circuit

The Charge current flowing through L10 is supplied.

For detection of CHARGE, the voltage fluctuation of R85 is detected by PC1 and then CHARGE is judged by pin ③ of the CPU IC4 after it flows through PC1.

Charged → IC4 pin [®] Low

Not Charged → IC4 pin [®] High

2-2. Spare Charge Circuit

The spare charge current flows through D10 and then recharged.

The spare charge is detected by PC3 and judged by pin @ of the CPU IC4.

Charged → IC4 pin⁽⁴⁾ Low

Not Charged → IC4 pin¹ High

15 hours after it is charged, the trickle charge mode is set. At this time, PC4 is turned OFF, Q19 is turned OFF, and the current does not flow through R92 to suppress the recharging current.

3. Bell Detector Circuit

When the Bell signal is input between A/B, the signal of which waveform is shaped through $C2 \rightarrow R2 \rightarrow Q1$ is input to pin 9 of the CPU IC4.

When the CPU detects the Bell signal, pin ⁶⁹ repeats High/Low fluctuation and then LED2 in use is flashed. At this time, if the portable handset is charged, the base unit's ringer is on.

If the portable handset is not charged, the data signal generated by pins ① – ② of the CPU is sent to the portable handset through RF and then the portable handset's ringer is on.

4. Line Interface

The line is looped when pin 3 of the CPU becomes High and Q4 and Q3 are ON. The looped current flows through A \rightarrow D3 \rightarrow Q3 \rightarrow Q6 \rightarrow R24 \rightarrow R25 \rightarrow R26 \rightarrow D3 \rightarrow B.

5. Reception Voice Switch

The received voice signal is input to pin of IC1 (microphone AMP input) through Q6, Q18 from the line, and flows through pin (limiter AMP input), pin (compounder input) and pin (high-pass filter input), then through the IC's low-pass filter of IC1 (that cuts off 4 kH), and is output to the RF unit.

The alarm, DTMF monitoring, and data signals are input to pin @ of IC1 through the resistors and capacitors from each microcomputer's ports, and output to the RF unit in the same way.

6. Sending-Speech-Signal

The signal received on the RF unit is input to pin@ of IC1 as the 21.4 MHz IF signal, and output from pin@ as the 455 kHz IF signal in the mixer circuit inside IC1. This signal is demodulated by passing through the F1 (455 kHz band pass filter) and output from pin® as audio signal.

The demodulated audio signal is input to pin®, flows through the LPF (that cuts off 4 kHz) in IC and amplified through the expander, and then output to the line through Q8 from pin@.

7. DTMF Signal

When the DTMF data from the portable handset is received, the DTMF signal is output from pin @ of the CPU and sent to the line through Q8.

8. RX Data Processing

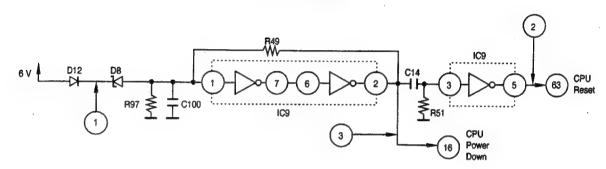
The received RX data is demodulated like the speech signal, output from pin® of IC1 and sent through the LPF (4 kHz) from pin® . Then it is output from pin⑤ , amplified by the Data AMP of pins③ and④ , input to pin② of the CPU and then detected.

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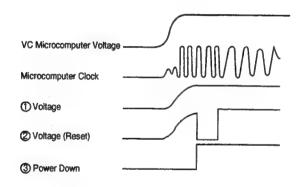
9. Reset Circuit

After the power supply to work is put, the voltage at point ① is raised to the same level of the microcomputer. However, since D8 is 3.3 V Zener, the voltage of RESET stays Low until D8 is turned ON. When D8 is ON, the Power Down becomes High, is done differential calculus by C14, the output of the RESET becomes Low for about 20 ms, then the RESET is activated.

Circuit Diagram



Timing Chart



10. Electric Field Detection Circuit

The electric field detection circuit consists of the noise amplifier and noise detection circuit. This checks if there is electric field using the comparators (SQ2 and SQ1).

The received signal is amplified by the noise amplifier of IC1 @ and @ and if there is much noise, the output of SQ1 and SQ2 becomes High and the CPU judges that there is no electric field.

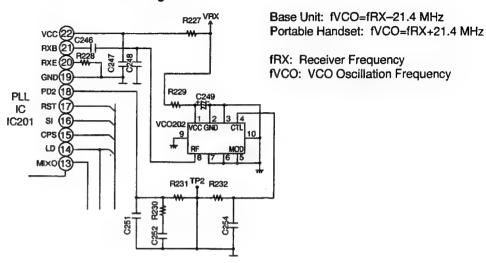
If there is less noise, the output of SQ1 and SQ2 becomes Low and the CPU judges that there is electric field. The 20 dB μ V/m circuit (SQ2) is used for judging squelch. The 30 dB μ V/m circuit (SQ1) is used for weak electric field alarm.

RF Unit

1. Receiver VCO Circuit

This circuit consists of VCO202 (VCO module). The control voltage of pin® of PLL IC is applied to ④ terminal of VCO202 and the oscillation frequency is controlled. The oscillation frequency in the band of 900 MHz is applied to pin② of PLL IC from ® terminal of VCO201.

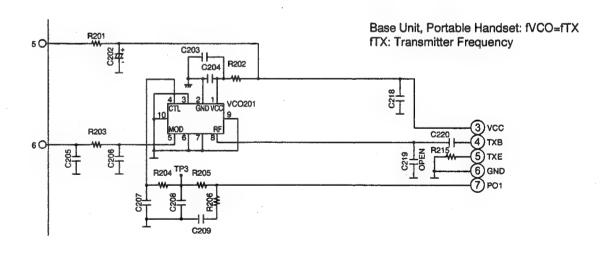
Circuit Diagram



2. Transmitter VCO Circuit

This circuit consists of VCO201 (VCO module). The control voltage of pin ①of PLL IC is applied to ④ terminal of VCO201 and the oscillation frequency is controlled. The oscillation frequency in the band of 900 MHz is applied to pin ④ of PLL IC from ⑥ terminal of VCO201.

Circuit Diagram

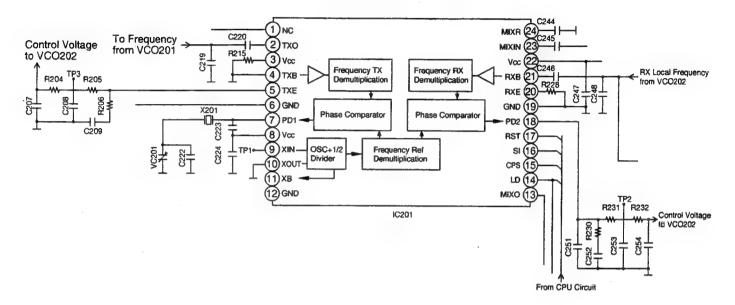


3. PLL Circuit

IC201 includes two PLL circuits for transmission frequency and reception local frequency.

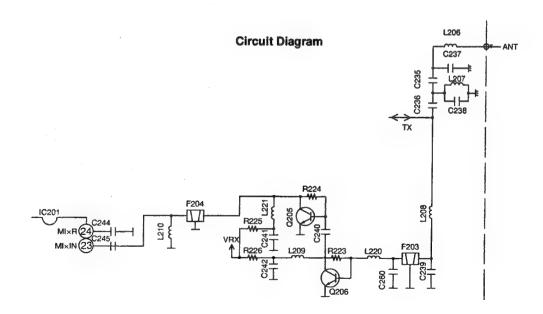
The frequency in the band of 900 MHz supplied from TX VCO and RX VCO, and Ref. OSC frequency (12.8 MHz) are divided into 12.5 kHz frequency controlled by the CPU. The phases of the frequency from TX and RX and the reference frequency are compared each other, the control voltage is supplied to the VCO circuit from pins ② and ③ so that the desired TX and RX frequencies are provided. The VCO control signal (TX, RX frequency setting) of the PLL circuit is supplied to CPS pin ⑤, SI pin ⑥ and RST pin ⑦ from the CPU circuit. Also, the locked oscillation frequency of the VCO circuit is supplied to the CPU from pin ④ at "L".

Circuit Diagram



4. Receiver RF Circuit

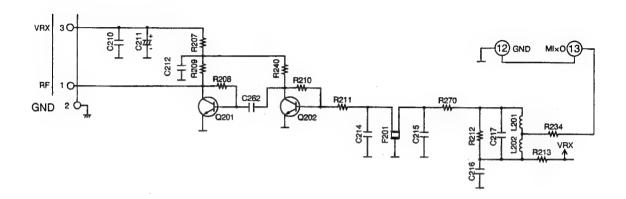
The electric wave received from the antenna is attenuated by the SAW filter F203 except the received frequency band. Then it is amplified by the RF amplifier Q206 and Q205, and supplied to the IC201 pin (a) (MIXER input).



5. MIXER, IF Circuit

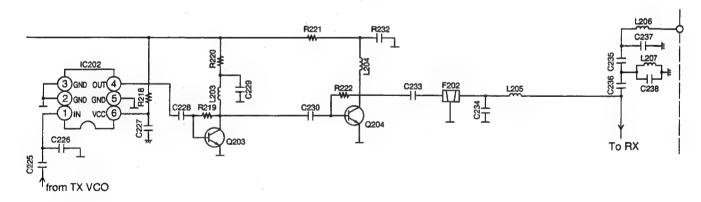
The signal in the received frequency band supplied to IC201 pin 3 (MIXER input) is converted to 21.4 MHz of the 1st IF by the received local signal in the MIXER circuit, and output to pin 3 of MIXO. The resonance circuits of C217, L201 and L202 are resonated to 21.4 MHz. The 21.4 MHz IF signal becomes an element of the ± 4.5 kHz band width by the MCF, F201, and is supplied to IF amplifier Q202 and Q201.

Circuit Diagram

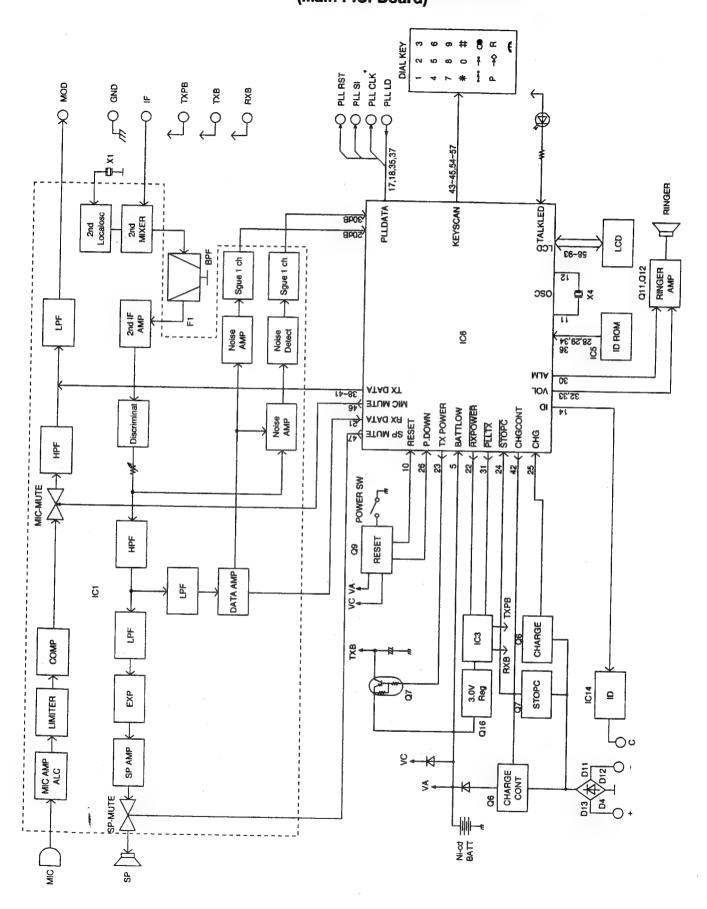


6. TX Power Circuit

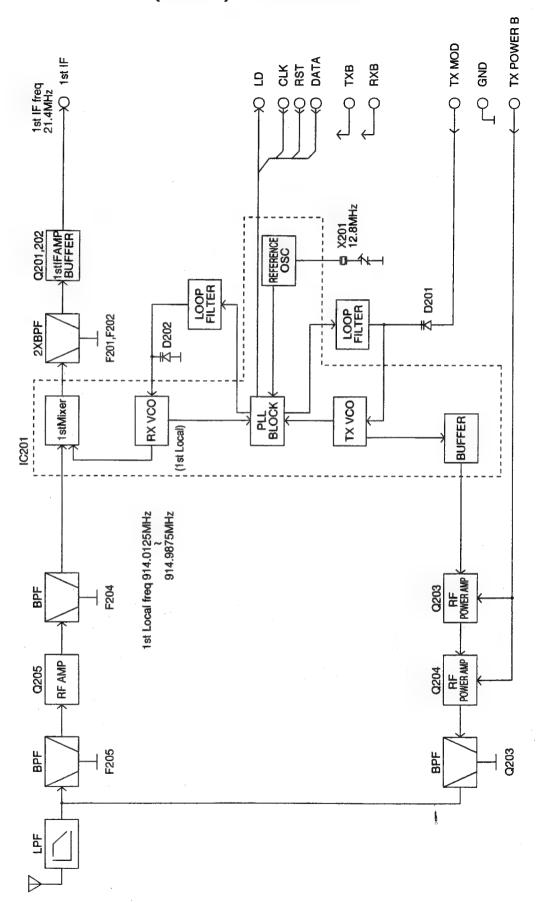
The TX VCO output signal flows through the buffer IC202 and it is supplied to the TX Power Amp., Q203 and Q204. The received signal is attenuated by the band pass filter F202 except its received frequency band. Then it is supplied to the antenna without having any influence on the Receiver RF circuit.



BLOCK DIAGRAM (KX-T9300DMR) (Main P.C. Board)



BLOCK DIAGRAM (KX-T9300DMR) (RF Unit)



TX freq 914.0125MHz
2
914.9875MHz
RX freq 959.0125MHz
959.9875MHz

NEW CIRCUIT OPERATION (KX-T9300DMR)

RF Unit Section

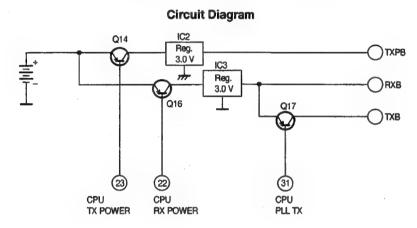
Refer to pages 39~41. (Common use to Base Unit)

Main Unit

1. RF Transmission/Reception Power Supply Circuit

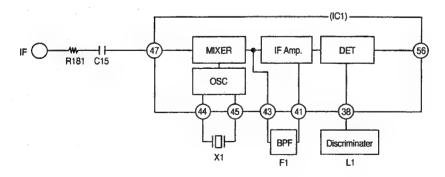
The power source for transmission is switched on and off by the CPU that controls Q14 and Q16 for battery current. It is stabilized to the constant voltage by the 8 V regulator and supplied to the RF unit and IF IC. In the standby mode, Q16 is switched ON and 3 V is supplied to the RXB via IC3 only when pin @ becomes Low.

In the TALK mode, when pins 22 and 33 are set to Low and Q16 and Q17 is switched ON, approx. 3 V is supplied to the RXB and TXB. And then, pin 23 is set to Low, Q14 is ON and 3 V is supplied to the TXPB via IC2.



2. IF Reception Section

The 21.4 MHz IF signal in the band width of \pm 7.5 kHz that was received by the RF unit is input to pin 6 of IC1. It is mixed with the 2nd local frequency of 20.945 MHz and then filtered by F1 so that the 2nd IF frequency of 455 kHz is supplied to the IF Amp. of IC1. The 2nd IF signal is demodulated by the wave detector of IC1 and sent to pin 6 as the audio signal.



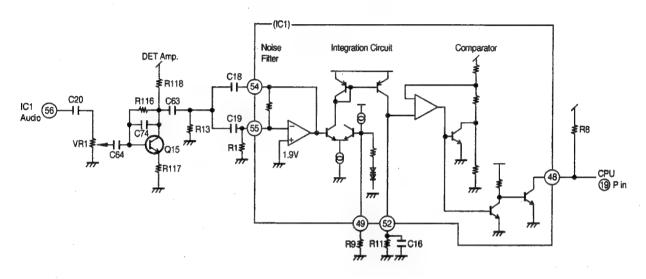
3. Electric Field Detection Circuit

The electric field detection circuit that consists of the DET Amp., IC1's noise filter, integration circuit and comparator detects the electric field by checking noise.

The audio signal output from pin 69 extracts noise of approx. 18 kHz by the noise filter of IC1 after it is amplified by the DET amplifier. After the noise is converted to the De voltage in the integration circuit, it is input to the comparator to gain High and Low outputs.

Pin @ decides the sensitivity of the integration circuit and pin @ decides the time constant. In the strong electric field, the De voltage of pin @ is 0.5 V or less, pin @ outputs Low. In the weak electric field, the De voltage of pin @ is approx. 1 V, pin @ outputs HIGH.

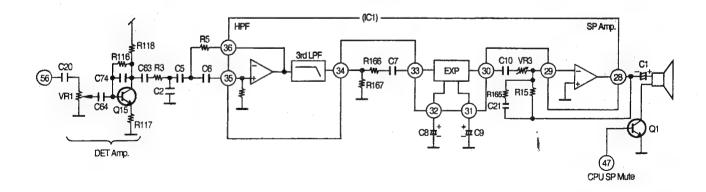
Circuit Diagram



4. Received Data Circuit

The RX Data circuit consists of the HPF, LPF and Data Amp.

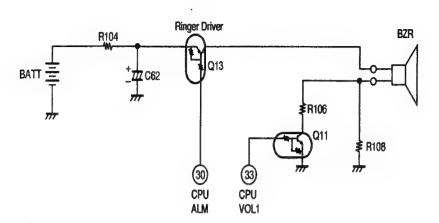
The received RX data is output to pin[®] of IC1 as the audio signal. The data frequency is digital signal of 600~2000 Hz. The data signal output from pin[®] is output from pin[®] as signal of 100~4000 Hz through the HPF of pins[®] and [®] and the LPF in IC1. And then it is amplified in the data amplifier of pins[®] and [®] and detected after it is sent to pin[®] of the CPU.



5. Ringer Circuit

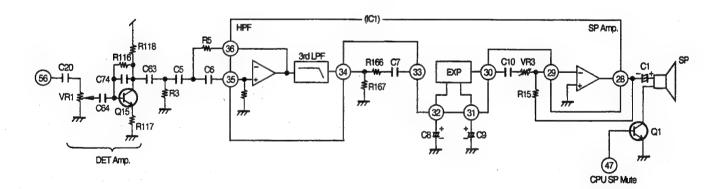
When the Ring signal is received with the power switch of the portable handset ON, the ringer is activated. When the ring signal is received, pin is set to High. After Q11 is turned ON, Q13 is switched on by the ringer frequency in pin and then the buzzer is ON.

Circuit Diagram



6. Reception Signal Circuit

The reception circuit consists of the DET amplifier, and IC1's HPF, LPF, Expander and SP amplifier. The received voice signal is output to pin @ as an audio signal of 200-2400 Hz via the HPF and LPF of IC1 to eliminate unnecessary elements, after it is amplified by the DET amplifier just the same way for the RX data. The amplified received voice signal is input to the expander from pin @ because it is the demodulated signal compressed in the base unit. The expanded signal is output to pin @ and it is amplified by the SP amplifier of pins @ and @ , and sent to the SP. The transistor Q1 for SP muting functions when it is set to ON while the SP is on. If SP muting mode is selected, Q1 functions when it is set to OFF. Therefore, the CPU controls pin @ when HIGH is output with the SP on, and LOW is output during muting mode.

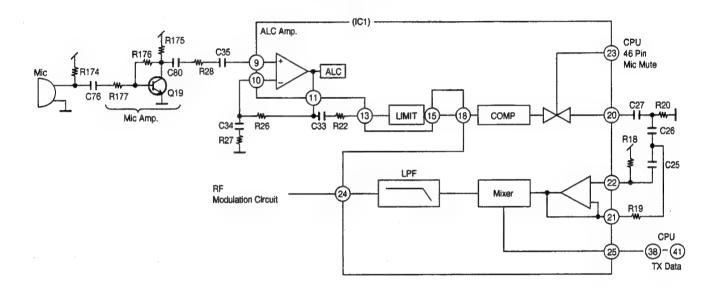


7. Sending Signal

The received voice signal from the microphone is amplified in the microphone amplifier of Q19 and input to the ALC amplifier of IC1. The ALC circuit prevents the received voice signal from being distorted when a large volume signal is input from the microphone. If an input signal level becomes beyond the previously set one, the circuit reduces the Amp. gain in order not to fluctuate the output level by strong input. The LIMIT circuit clips strong signals that are leaked from ALC filtering. The transmitted voice signal output from pin (b) is input to the compressor from pin (b) and amplified. Then, it flows through the MUTE circuit and output to pin(c). This circuit controls the CPU when the signal is Low during calling and High during muting mode. The transmitted voice signal through the MUTE circuit is input to the HPF of pins (a) and (a), and sent to the Mixer circuit in IC1.

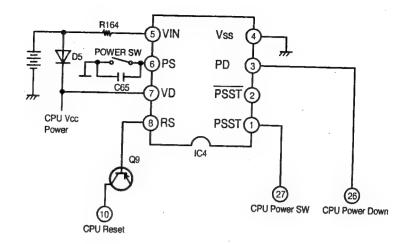
The Mixer circuit mixes the TX data from the CPU with the transmitted voice signal (however, Mic. Mute mode is activated during TX data transmission). Finally, the Mixer output flows through the LPF of 4 kHz cut-off frequency and it is output from pin ②, then sent to the RF modulator.

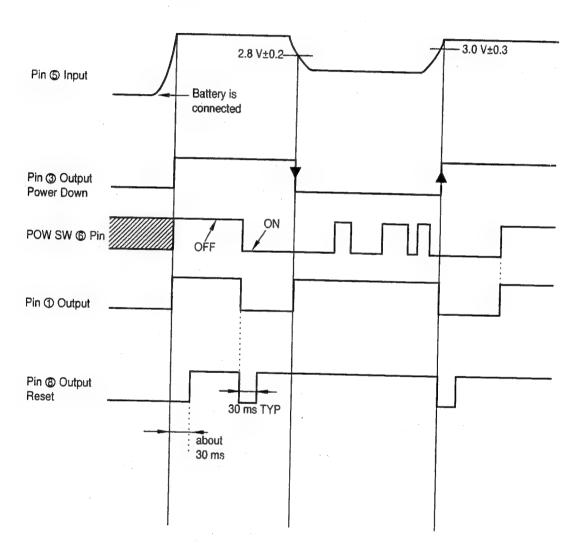
Circuit Diagram



8. Reset Circuit, Power Down Circuit, Power ON/OFF Circuit

IC4 detects RESET, POWER DOWN and POWER ON/OFF.
C65 is desined to avoid the power switch chattering.
R164 is used for Power Down voltage setting. The Power is down at approx. 3.4V.



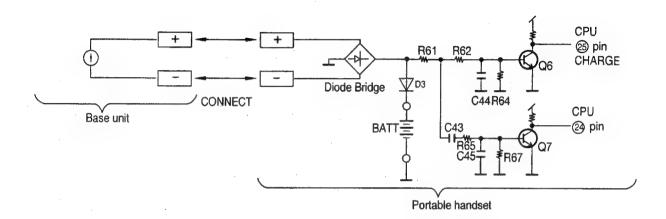


9. Charging Detection, ID Data Detection

If the portable handset is put on the base unit to recharge it, the DC voltage is applied to the charge terminal on the portable unit. At this time, the output of the diode bridge becomes High, and the charging detection signal is output when Q6 is changed from High to Low. Simultaneously, the differentiated signal is input to Q7 via C43 and Q7 outputs a low pulse to the CPU. Each output of Q6 and Q7 is the charging detection signal which the CPU uses when the power switch is on and off.

Battery recharging is carried out by the power supply from the diode bridge.

Circuit Diagram

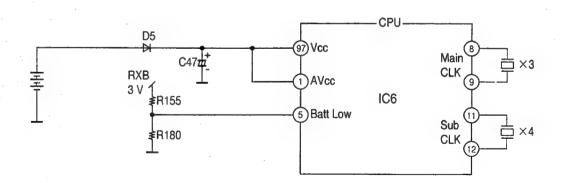


10. CPU Power Supply, Low Battery

The power supplied to the CPU from the battery via D5.

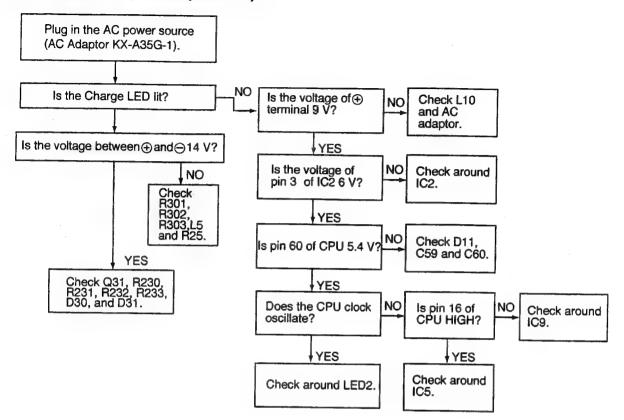
The CPU detects that the battery is low by comparing the constant voltage of pin (5) with the battery voltage of pin (1). In the standby mode, X4 of the subsidiary clock oscillates at 32.76 kHz.

In the operation mode, X3 of the main clock oscillates at 4 MHz.

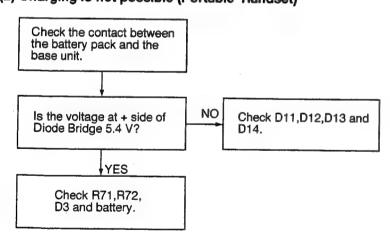


TROUBLESHOOTING GUIDE

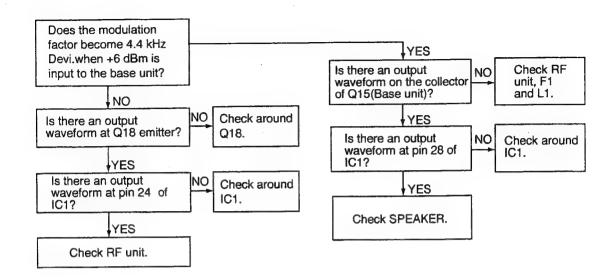
(1) Charging is not possible (Base unit)



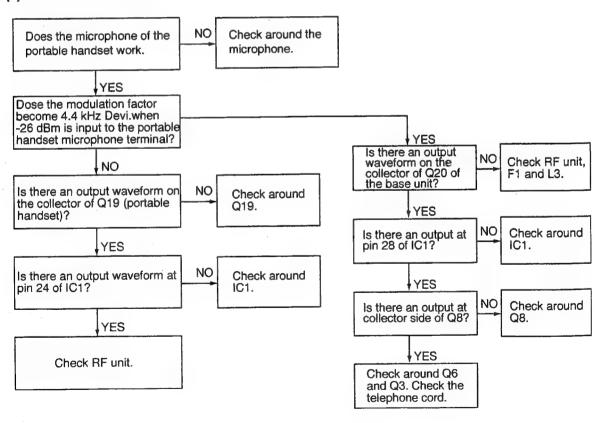
(2) Charging is not possible (Portable Handset)



(3) No voice reception

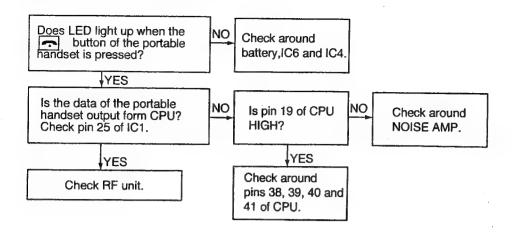


(4) No voice transmission

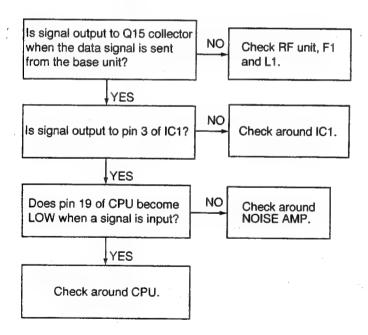


VY-18300DW

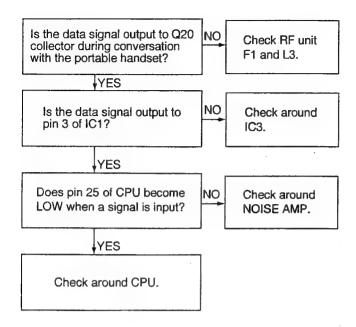
(5) No link (Portable handset TX)



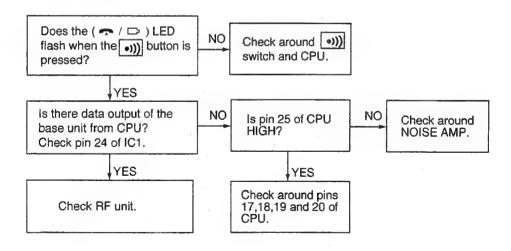
(6) No link (Portable handset RX)



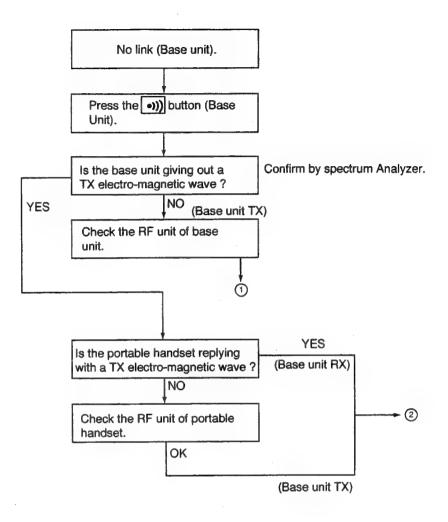
(7) No link (Base unit RX)

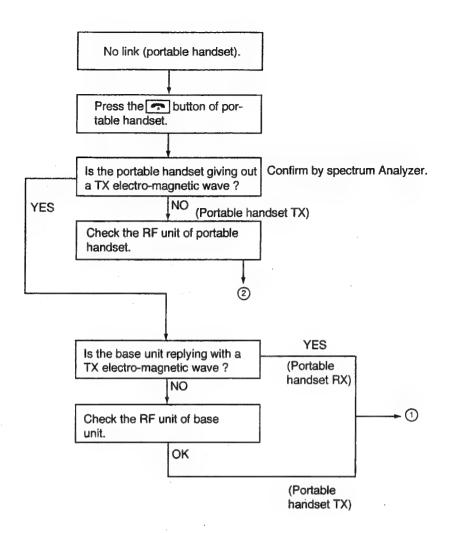


(8) No link (Base unit TX)

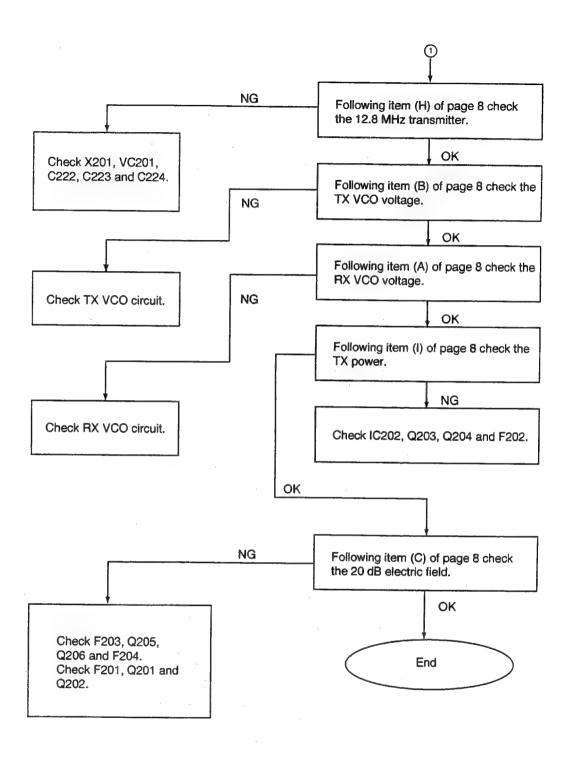


(9) Check whether the RF unit defect is in the portable handset or the base unit.

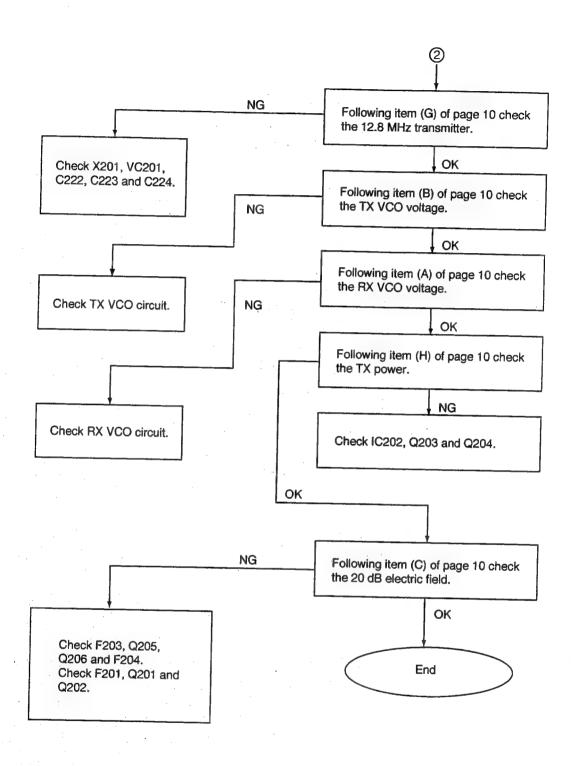




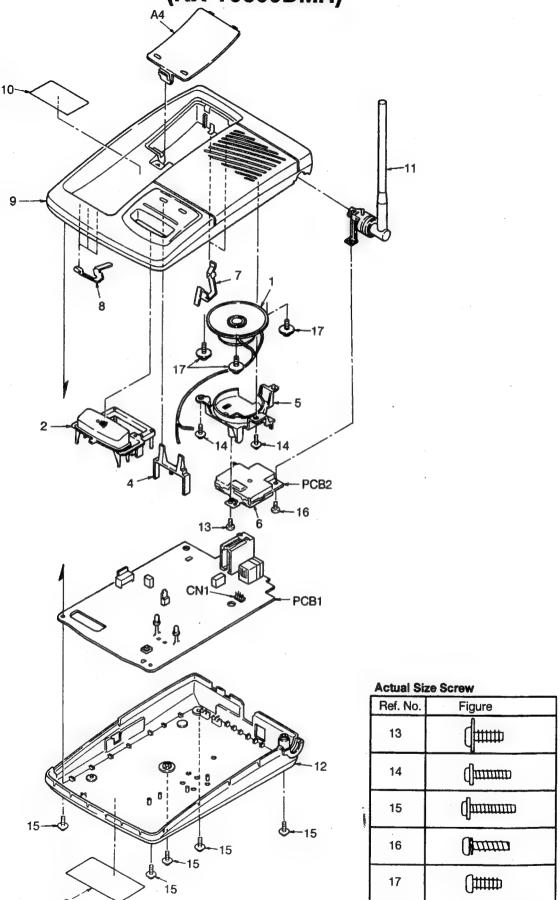
(10) Check the RF unit of the base unit.



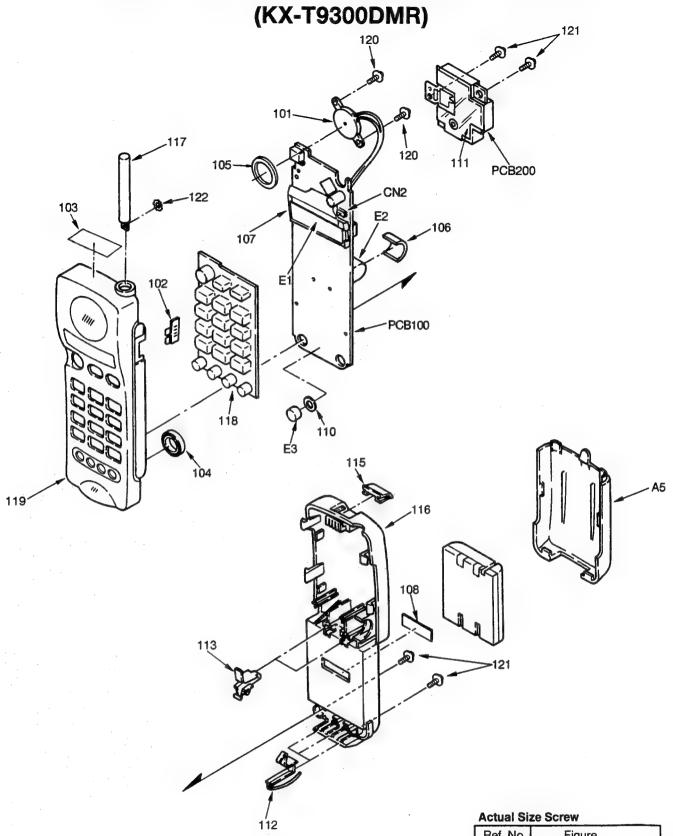
(11) Check the RF unit of the portable handset.



CABINET AND ELECTRICAL PARTS LOCATION (KX-T9300DMH)

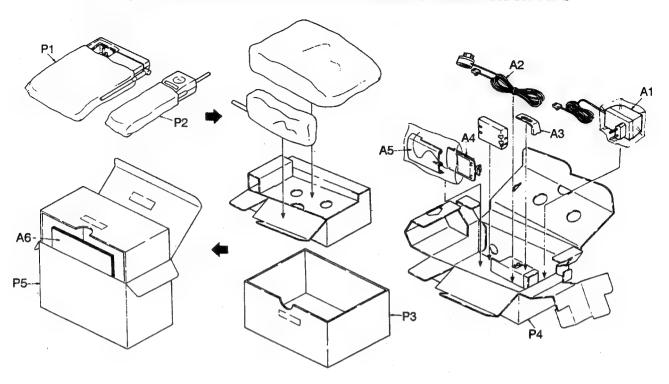


CABINET AND ELECTRICAL PARTS LOCATION (KX-T9300DMR)

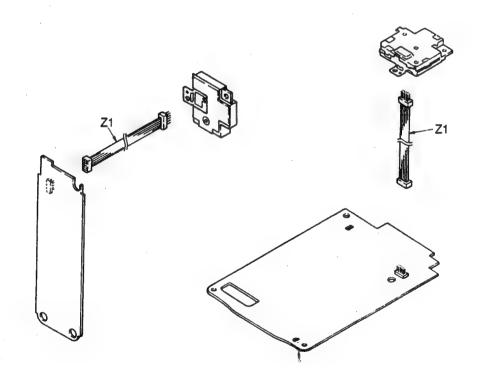


Ref. No.	Figure
120	Omm
121	(Januaran

ACCESSORIES AND PACKING MATERIALS



FIXTURES AND TOOLS



REI	PLACEM	ENT	PAR	TS LIS	ST	
		M	odel	KX-T9	300DI	<u>лн_</u>
After the disco- to be available is dependent of governing part of After the end of 2. Important safet	TL) indicates the ntinuation of this for a specific per the type of as and product reter this period, they notice.	s assembly eriod of time sembly, and ention. e assembly	in produ e. The re d in acco will no lo	ction, the it itention peri indance with	em will o od of ava the laws ailable.	ontinue ailability
Components id safety. When specified parts. 3. The 5 mark ind	entified by a A replacing any of icates service s	these com	ponents,	use only m	anufactu	rer's
parts. 4. RESISTORS &						
Unless otherwis						
	in ohms (Ω) h	(=1000Ω, M	=1000Ks	2		
All capacitors a	re in MICRO FA	RADS (µF) P= μμF	:		
*Type &Wattag	e of Resistor					
Type						3
ERC:Solid	ERX:Metal F		4R:Carbo			
ERD:Carbon	ERG:Metal C			Resistor		
PQRD:Carbon	ER0:Metal F	im JEH	r:cemen	it Hesistor		ı
Wattage	14,25:1/4W	12:1/2	A/	11:1W	2:2W	3:3W
10,16:1/8W *Type & Voltage		12.112	44	11.777	2.211	0.011
	or Capacitor					
Type ECFD:Semi-Cor	ductor	ECCD EC	D.FCBT	,PQCBC : 0	Ceramic	
ECQS:Styrol	iddoto!			: Polyeste		
PQCUV:Chip		ECEA,ECS				
ECQMS:Mica		ECQP : Po				
Voltage						
ECQ Type	ECQG	ECSZ Typ)	Ō	hers	
	ECQV Type	"				
1H: 50V	05: 50V	0F:3.15V	OJ :6	3.3V		35V
2A:100V	1:100V	1A:10V	1A :	10V	50,1H:	
2E:250V	2:200V	1V:35V		16V		33V
2H:500V		0J:6.3V	1E,25:	25V	2A :1	00V
			,			

Ref. No.	Part No.	Part Name & Description	Р	cs/Set
		CABINET & ELECTRICAL PARTS		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	PQAS5P25Z PQBC10165Z1 PQGT12183Z PQHR10298Y PQHR10320Z PQHX10560Z PQJT10088Z PQKM10200R1 PQQT1120ZZ PQSA10031Z PQYF10079P1 XTN3+8G XTW3+S10P XTW3+S14P XYC3+CG10FX PJHE5065Z	SPEAKER BUTTON, PAGE NAME PLATE LED PLATE SPEAKER HOLDER INSULATOR (RF) BATTERY TERMINAL BATTERY TERMINAL UPPER CABINET NOTE LABEL ANTENNA LOWER CABINET SCREW (RF) SCREW (SPEAKER HOLDER) SCREW SCREW SCREW (SP)	S	1 1 1 1 1 2 3 1 1 1 1 2 2 5 1 3

QWPT9300DMH N6159FA QVIPC78M06A N150808KJAK QVI93LC46XI N6183SAE1 QVIMC34119M QVITC7W04FL SC4116 SA1625 QVT2N6517CA SD1992A SD601A SD601A SC4116 SD601A SC4116 SC	MAIN P.C.BOARD PARTS P.C.BOARD ASS'Y (RTL) (ICS) IC IC IC IC IC IC IC IC IC IC IC IC IC	1 1 1 1 1 1 1 1 1 1
N6159FA QVIPC78M06A N150808KJAK QVI93LC46XI N6183SAE1 QVIMC34119M QVITC7W04FL SC4116 SA1625 QVT2N6517CA SD601A SD601A SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116	(ICS) IC IC IC IC S IC IC IC S IC IC IC IC IC IC IC IC IC ITANSISTORS) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)	1 1 1 1 1 1 1 1 1 1 1 1 1
QVIPC78M06A N150808KJAK QVI93LC46XI N6183SAE1 QVIMC34119M QVITC7W04FL SC4116 SA1625 QVT2N6517CA SD1992A SD601A SD601A SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116	IC IC IC IC IC IC IC IC IC IC IC IC IC I	1 1 1 1 1 1 1 1 1
QVIPC78M06A N150808KJAK QVI93LC46XI N6183SAE1 QVIMC34119M QVITC7W04FL SC4116 SA1625 QVT2N6517CA SD1992A SD601A SD601A SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116	IC IC IC IC IC IC IC IC IC IC IC IC IC I	1 1 1 1 1 1 1 1 1
QVIPC78M06A N150808KJAK QVI93LC46XI N6183SAE1 QVIMC34119M QVITC7W04FL SC4116 SA1625 QVT2N6517CA SD1992A SD601A SD601A SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116	IC S IC IC S IC IC S IC IC IC IC IC IC IC IC IC IC IC IC IC	1 1 1 1 1 1 1 1 1
N150808KJAK QVI93LC46XI N6183SAE1 QVIMC34119M QVITC7W04FL SC4116 SA1625 QVT2N6517CA SD1992A SD601A SD601A SD601A SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116	IC S IC IC IC IC IC (TRANSISTORS) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)	1 1 1 1 1 1 1 1 1
N6183SAE1 QVIMC34119M QVITC7W04FL SC4116 SA1625 QVT2N6517CA SD1992A SD601A SD601A SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116	IC IC IC IC IC IC IC IC IC IC IC IC IC I	1 1 1 1 1 1 1 1
QVIMC34119M QVITC7W04FL SC4116 SA1625 QVT2N6517CA SD1992A SD601A SD601A SC4116 SD601A SC4116 SC4116 SC4116 SC4116 SC4116	IC IC IC IC (TRANSISTORS) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)	1 1 1 1 1 1 1 1
QVITC7W04FL SC4116 SA1625 QVT2N6517CA SD1992A SD601A SD601A SD601A SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116	(TRANSISTORS) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)	1 1 1 1 1
SC4116 SA1625 QVT2N6517CA SD1992A SD601A SD601A SC4116 SC4116 SC4116 SC4116 SC4116 SC4116	(TRANSISTORS) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)	1 1 1 1 1
SA1625 QVT2N6517CA SD1992A SD601A SD601A SD601A SC4116 SD601A SC4116 SC4116 SC4116 SC4116	TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)	1 1 1 1
SA1625 QVT2N6517CA SD1992A SD601A SD601A SD601A SC4116 SD601A SC4116 SC4116 SC4116 SC4116	TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)	1 1 1 1
QVT2N6517CA SD1992A SD601A SD601A SD601A SC4116 SD601A SC4116 SC4116 SC4116 SC4116 SC4116	TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)	1 1 1
SD1992A SD601A SD601A SC4116 SC4116 SC4116 SC4116 SC4116 SC4116 SC4116	TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)	1 1 1
SD601A SD601A SD601A SC4116 SC4116 SC4116 SC4116 SC4116 SD1328 QVTDTC143E	TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)	1
SD601A SD601A SC4116 SC601A SC4116 SC4116 SC4116 SD1328 QVTDTC143E	TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)	1
SD601A SC4116 SD601A SC4116 SC4116 SD1328 QVTDTC143E	TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)	I
SC4116 SD601A SC4116 SC4116 SD1328 QVTDTC143E	TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)	1
SD601A SC4116 SC4116 SD1328 QVTDTC143E	TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)	1
SC4116 SC4116 SD1328 QVTDTC143E	TRANSISTOR(SI) TRANSISTOR(SI)	1
SD1328 QVTDTC143E		1
QVTDTC143E		1
	TRANSISTOR(SI)	1 1
SD1664Q	TRANSISTOR(SI)	1 !
	TRANSISTOR(SI)	1 1
SC4116	TRANSISTOR(SI)	1 1
SC4116 N1116	TRANSISTOR(SI) TRANSISTOR(SI)	Ιi
		'
	(DIODES)	
QVDS1ZB40F1	DIODE(SI)	1 1
IA110	DIODE(SI)	1 !
QVDS1ZB40F1	DIODE(SI)	
IA110	DIODE(SI) DIODE(SI)	1
IA4030 SS131	DIODE(SI)	Ιi
1A700A	DIODE(SI)	1 1
KA110	DIODE(SI)	1
A112	DIODE(SI)	1
MA112	DIODE(SI)	1
SS131	DIODE(SI)	1 1
MA110	DIODE(SI)	1 1
fA110	DIODE(SI) DIODE(SI)	
MA110 MA8030	DIODE(SI)	li
MA110		l i
MA112	DIODE(SI)	1
A8068M	DIODE(SI)	1
SS131	DIODE(SI)	1
NJ41LNKXAK	LED	1
N31GCPHV	LED	1
	(COILS)	
LEV102KA	COIL	1
LEV102KA	COIL	1
QLQZM8R2K	COIL	1
QLQZM8R2K	COIL	1 1
QLQZM8R2K	COIL	1 !
		1 1
	100.2	'
	MA110 MA112 MA8068M SS131 NJ41LNKXAK N31GCPHV ELEV102KA ELEV102KA EQLQZM8R2K	IA110 DIODE(SI) IA112 DIODE(SI) IA8068M DIODE(SI) SS131 DIODE(SI) NJ41LNKXAK LED N31GCPHV LED (COILS) (COILS) LEV102KA COIL LEV102KA COIL QLQZM8R2K COIL QLQZM8R2K COIL QLQZM8R2K COIL QLQZM8R2K COIL QLQZM8R2K COIL QLQZM8R2K COIL

Re	f. No.	Part No.	Part Name & Description	Pcs/Set	Ref. No.	Part No.		Value	Pcs/Set
			(SWITCHES)		R25	Not Used	 		+
SW	V	PQSS3A17W	SWITCH, RINGER VOLUME	1 1	R26	Not Used	1		1
sw	5	EVQQJJ05Q	SWITCH, PAGE	1	R27	ERJ3GEYJ223	22K		1 1
				1	R28	ERJ3GEYJ472	4.7K		
					R29	ERJ3GEYJ393	39K		1
1			(VARIABLE RESISTORS)		R30	ERJ3GEYJ562	5.6K		
VR1		EVNDXAA03B24	VARIABLE RESISTOR	1	R31	PQ4R10XJ222	2.2K		1 1
VR2		EVNDXAA03B15	VARIABLE RESISTOR	i i	R32	Not Used	2.21		1 1
VRS		EVNDXAA03B24	VARIABLE RESISTOR	1 1	R33	ERJ3GEYJ472	4.7K		1 . :
VR4		EVNDXAA03B54			1 1				1
V 174	'l	EVINDAMAU3034	VARIABLE RESISTOR	1	R34	ERJ3GEYJ102	1K		1
ļ					R35	ERJ3GEYJ224	220K		1
1			ALA DIOTODO	1	R36	Not Used			1
		BOMBBOOM	(VARISTORS)		R37	ERJ3GEYJ334	330K		1 1
SA1		PQVDDSS301L	VARISTOR A	1	R38	ERJ3GEYJ153	15K		1 1
SA2		PQVDDSS301L PQVDDSA302MU	VARISTOR A	1	R39	Not Used			
			22		R40	ERJ3GEYJ472	4.7K		1
					R41	ERJ3GEYJ473	47K		1 1
1			(PHOTO COUPLERS)		R42	PQ4R10XJ103	10K		
PC1		PQVIP27011M3	PHOTO ELECTRIC TRANSDUCER	A 1	R43~46	Not Used			1 1
PC3		PQVIP27011M3	PHOTO ELECTRIC TRANSDUCER	∆ 1	R47	ERJ3GEYJ564	560K		1 1
PC4	. [PQVIP27021L3	PHOTO ELECTRIC TRANSDUCER	∆ 5.1	R48	ERJ3GEYJ472	4.7K		1 1
1	ı				R49	ERJ3GEYJ105	1M	·	i
			(JACKS)		R50	ERJ3GEYJ472	4.7K		1
JJ1	- 1	PQJJ1T013Y	JACK, DC	1 1	R51	ERJ3GEYJ105	1M		1 1
JJ2	ı	PQJJ1TC2Y	JACK, TEL	1 1	R52	ERJ3GEYJ273	27K		1 1 1
1	i				R53	ERJ3GEYJ104	100K		1 1
1					R54	ERJ3GEYJ124	120K		1 ; 1
1			(CRYSTAL OSCILLATORS)		R55	ERJ3GEYJ184	180K		1 ; [
X1		PQVCJ2094N4R	CRYSTAL OSCILLATOR	1	R56	ERJ3GEYJ224	220K		1 ; 1
X2	ľ	PQVFCDBM455M	CRYSTAL OSCILLATOR	1 1	R57	ERJ3GEYJ104	100K		1 1
ХЗ		PQVCJ3581N9Z	CRYSTAL OSCILLATOR	1 1	R58	ERJ3GEYJ185	1.8M		1 1
1					R59	Not Used	1.0		
			(OTHERS)		R60	ERJ3GEYJ472	4.7K		,
CN1	- 1	PQJP10B01Z	CONNECTOR	1 1	R61	Not Used	J		1 ' 1
RLY	1	PQSL134Z	RELAY	1	R62	ERJ3GEYJ222	2.2K		1 1
	1				R63	ERJ3GEYJ333	33K		1 ; 1
	- 1				R64	ERJ3GEYJ243	24K		1 ; 1
ŀ	ſ		1		R65	ERJ3GEYJ393	39K		1 1
ł			1		R66	ERJ3GEYJ473	47K		\perp \mid \mid
ĺ	- 1				R67	ERJ3GEYJ393	39K		Lil
	- 1		1		R68	ERJ3GEYJ473	47K		1 1 1
					R69	ERJ3GEYJ392	3.9K		
R1		PQRD1VJ154	(RESISTORS) 150K	1	R70	ED INCEVIAGO	104		
R2		ERDS2TJ824	820K	- i I	R71	ERJ3GEYJ103 ERJ3GEYJ273	10K		
R3		Not Used		'	R72	ERJ3GEYJ273	27K		1 1 1
R4		ERJ3GEYJ104	100K	1	R73	ERJ3GEYJ273	27K		1 1 1
R5		ERJ3GEYJ153	15K	1	R74	Not Used	2.7K		1 1
R6		PQ4R10XJ473	47K	- i I	R75	ERJ3GEYJ333	224		1 , 1
R7~9		Not Used	[····	'	R76		33K		1 !
Γ.,	<u> </u>				R77	ERJ3GEYJ123 ERJ3GEYJ683	12K		!
R10	1	Not Used			R77	PQ4R10XJ222	68K		!
R11		Not Used		1	R79		2.2K		1 1
R12		ERJ3GEYJ104	100K	1	n, 9	ERDS2TJ564	560K		1 1
R13		ERJ3GEYJ472	4.7K	1	R80	ED INCEVIAGO	104		1 , 1
R14		ERJ3GEYJ473	47K	1	R81	ERJ3GEYJ123	12K		!
R15		PQ4R10XJ104	100K		R82	ERJ3GEYJ183	18K		!
R16		ERDS2TJ471	470	1 1		ERJ3GEYJ153	15K		.1
R17		ERDS2TJ821	820	1	R83	Not Used			
R18		Not Used	020	1 1	R84	Not Used			1 , 1
R19		Not Used Not Used		- 1	R85 R86	PQ4R10XJ471 ERJ3GEYJ473	470 (47K	1	;
Boo					R87~89	Not Used			'
R20 R21		Not Used ERJ3GEYJ153	15K	1	R90	ERD25TJ271	270		,
		ERJ3GEYJ392	3.9K	1 1	R91	Not Used	210		1 1
R22			1 - 1 - 1			FIROL USOU .			
R22 R23		ERJ3GEYJ103	10K	1	R92	ERD25TJ181	180		1 1

Ref. No	D. Part No.		Value	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Se
R94	ERJ3GEYJ103	10K		1	R186	ERJ3GEYJ103	10K	
R95 R96	ERJ3GEYJ102	1K		1	R187	ERJ3GEY0R00	0	1
R97	ERJ3GEYJ102 ERJ3GEYJ683	1K		1	R188	PQ4R18XJ000	Ō	1
R98	ERJ3GEYJ103	68K 10K		1	R189	ERJ3GEYJ104	100K	l i
R99	ERJ3GEYJ104	100K		1 1 1				
	1	TOOK		1	R190	ERJ3GEYJ100	10	1
R100	ERJ3GEYJ822	8.2K		1 1	R191~194			1
R101	ERJ3GEYJ473	47K			R196	ERJ3GEYJ103 ERJ3GEYJ104	10K	1
R102	ERJ3GEYJ562	5.6K			R197	ERJ3GEYJ563	100K 56K	1 1
R103	ERJ3GEYJ223	22K		1.	R198	Not Used	300	1
R104	ERJ3GEYJ562	5.6K			R199	ERJ3GEYJ102	1.0	[
R105	ERJ3GEYJ822	8.2K		1 1	111100	EN00GE10102	1K	1
R106	Not Used			1 1	R200	ERJ3GEYJ104	100K	
R107	ERJ3GEYJ332	3.3K		1 1	R202	ERJ3GEYJ100	10	1 1
R108	ERJ3GEYJ105	1M		1 1	R203~209		1,0	1
R109	ERJ3GEYJ271	270		1 1				
R110	ED IOOEV IOO	1			R210	ERJ3GEYJ332	3.3K	1
R111	ERJ3GEYJ681	680		1 1	R211	ERJ3GEYJ224	220K	
R112	ERJ3GEYJ104 Not Used	100K		1	R212~214	Not Used		1 '
R113	ERJ3GEYJ223	2002			R215	ERJ3GEYJ681	680	1 1
R114	ERJ3GEYJ223	22K 22K		1	R216~219	Not Used		'
R115	ERJ3GEYJ223	22K		1			1	l
R116	ERJ3GEYJ223	22K		1 1	R220	ERJ3GEYJ222	2.2K	1
R117	ERJ3GEYJ104	100K			R221~229	Not Used	- 1	ĺ
R118	Not Used		*	' 1	R230	PQ4R18XJ561	500	
R119	Not Used				R231	PQ4R10XJ221	560 220	1 1
1		1			R232	PQ4R10XJ121	120	
R120	Not Used				R233	PQ4R10XJ120	12	
R121	ERJ3GEY0R00	0		1	R234~239	Not Used	12	1 1
R122~139	Not Used							
R140~148	Net Head	- 1		- 1	R240	Not Used	i	
R149	Not Used ERJ3GEYJ104				R241	Not Used		
11.43	EN33GE13104	100K		1	R242	ERJ3GEYJ332	3.3K	1 1
R150	ERJ3GEYJ473	47K	,		R243	ERJ3GEYJ332	3.3K	1 1
R151	Not Used	77%		1	R244	ERJ3GEYJ102	1K	1 1
R152	PQ4R10XJ000	o	ĺ		R245	ERJ3GEYJ102	1K	1 1
R153	Not Used	ľ		1	R246 R247	ERJ3GEYJ272	2.7K	1 1
R154	Not Used				R248	ERJ3GEYJ182 ERJ3GEYJ223	1.8K	1 1
R155	ERJ3GEYJ473	47K		1	R249	ERJ3GEYJ102	22K 1K	
R156	ERJ3GEYJ683	68K	ı	1			in.	1 1
R157	ERJ3GEYJ472	4.7K		1	R250	ERJ3GEYJ224	220K	1
R158 R159	ERJ3GEYJ103	10K	i	1	R251	ERJ3GEYJ222	2.2K	1 1
11109	Not Used				_	ERJ3GEYJ271	270	l i l
R160	ERJ3GEYJ101	100			R253~269	Not Used		
R161	ERJ3GEYJ103	10K		1 11				1 1
R162~165	Not Used	TOIL TOIL		1		Not Used		
R166	ERJ3GEY0R00	О		1 1		ERJ3GEYJ683 ERJ3GEYJ104	68K	1 1
R167	ERJ3GEY0R00	0	· i	1		ERJ3GEY0R00	100K 0	1 1
R168	ERJ3GEYJ681	680				ERJ3GEYJ104	100K	
R169	Not Used					Not Used	1001	1
B170	FD 100711100	1	1	- 11				1 1
R170 R171	ERJ3GEYJ330	33		1	R320	Not Used		
R172	Not Used		İ			ERJ3GEYJ103	10K	1
R173	Not Used ERJ3GEYJ224	0004				ERJ3GEYJ474	470K	1 1 1
R174	ERJ3GEYJ224	220K			R323~399 1	Not Used		
R175	ERJ3GEYJ392	220K 3.9K		1 11				1 1
R176	ERJ3GEYJ391	390			R400 E	ERJ3GEY0R00	jo	1
R177	Not Used	030	i	1	l.		i	
R178	ERJ3GEYJ153	15K				ERJ3GEY0R00	0	1 1
R179	Not Used			1 1		FRJ3GEY0R00	0	
						ERJ3GEY0R00 ERJ3GEY0R00	0	1
R180	ERJ3GEYJ102	1K				RJ3GEY0R00	0	
R181	ERJ3GEYJ102	1K				RJ3GEY0R00	0	
R182	ERJ3GEYJ102	1K	1	1.1		RJ3GEY0R00	6	
	ERJ3GEYJ102 ERJ3GEYJ104	1K	1	1 1		RJ3GEY0R00	0	
R184		100K		1	103 E		• -	

Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	Value		Pcs/Set
J150	ERJ3GEY0R00	0	1	C25	ECUV1E104ZFV	0.1	s	
J151	ERJ3GEY0R00	0	1 1	C26	ECUV1E104ZFV	0.1	S	
			1 . 1	C27	PQCUV1C105ZF	11	s	1
J75	PQ4R10XJ000	0		C28	ECUV1H102KBV	1000P		1
J77	PQ4R10XJ000	0	1 1	C29	ECUV1H101JCV	100P		1
J82	PQ4R10XJ000	0					_	l .
J85	PQ4R10XJ000	0	1 1	C30	ECUV1H223KBV	0.022	S	1
J88	PQ4R10XJ000	0	1 1	C31	ECUV1H223KBV	0.022	S	
	DO 4 D 4 D 4 D 4 D 4 D 4 D 4 D 4 D 4 D 4	la la		C32	PQCUV1H102J	1000P	S	1
J68	PQ4R18XJ000	0	1	C33	PQCUV1H180JC	18P		1
J69	PQ4R18XJ000	0	1 1	C34	Not Used	1		l
J70	PQ4R18XJ000	0	1	C35	ECST0JX226	22		1
J71	PQ4R18XJ000	0	1 1	C36	PQCUV1E104MD	0.1		1
J74	PQ4R18XJ000	0	1 1	C37	PQCUV1E104MD	0.1		1
J78	PQ4R18XJ000	0	1 1	C38	ERJ3GEY0R00	0		1 1
J80	PQ4R18XJ000	0	1 1	C39	ECUV1H223KBV	0.022	s	1
J81	PQ4R18XJ000	jo	1 1	1				
J83	PQ4R18XJ000	0	1 1	C40	ECUV1H223KBV	0.022	s	1
J86	PQ4R18XJ000	0	1 1	C41	PQCUV1C105ZF	1	s	1
J89	PQ4R18XJ000	lo	1 1 1	C42	ECST0JY106	10		1
J91	PQ4R18XJ000	0	1 1	C43	ECST0JY475	4.7		1
J92	PQ4R18XJ000	o	1 1	C44	ECUV1H332KBV	3300P		1
J94	PQ4R18XJ000	lo	1 1	C45	ECUV1E104ZFV	0.1	s	i
J95	PQ4R18XJ000	0	1 1 1	C46	ECEA1CU221	220	<i>i</i>	li
J96	PQ4R18XJ000	o	1 1	C47	PQCUV1E104MD	0.1		1
J97	PQ4R18XJ000	o ·	1 i 1	C48	PQCUV1E104MD	0.1		1
J102	PQ4R18XJ000	o	1 1	C49	ECUV1H103KBV	0.01		1
J104	PQ4R18XJ000	ő	lil	10.10		0.01		'
J108	PQ4R18XJ000	o	Lil	C50	ECUV1H103KBV	0.01		1
J202	PQ4R18XJ000	o	1 i l	C51	ECUV1H223KBV	0.022	s	1
J211	PQ4R18XJ000	o	1 1 1	C52	ECSTOJY475	4.7	٦	ĺ
J300	PQ4R18XJ000	o	1 1	C53	ECST0JY106	10		1 1
J303	PQ4R18XJ000	o o	1 ; 1	C54	ECST0JY475	4.7		
0303	PQ4H IOAJUUU	ľ	1 ' 1	C55		1		1
Daa	DOADARY IOOG		1 1		ECUV1H153KBV	0.015		1
D33	PQ4R18XJ000	0		C56	Not Used	•		
D45	PQ4R10XJ000	0	1 1	C57	Not Used			
				C58 C59	ECST0JX226 EECW5R5D473	22 0.047	s	1
			1 1	000	BOOLD WALLACOK D		'	
		1	1 1	C60 C61	PQCUV1H103KB	0.01		1
			1 1	C62	ECUV1H180JCV	18P		1
			1 1	C63-69	ECUV1H180JCV Not Used	18P		1
				C70-76	Not Used		ļ	
		Ī	1 1	C77	PQCUV1C105ZF			
			1 1	C78	ECUV1E104ZFV	0.1	s	1
		(CAPACITORS)	1 1	C79	PQCUV1H681JC	680P	9	
C1	ECQE2224KF	0.22	1	0/9	PQC0VIN00IJC	000F	l	1
C2	ECQE2224KF	0.22		C80	Not Used		- 1	
C3	ECUV1H122KBV	1200P		C81	Not Used			
C4~7	Not Used	12001	1 ' 1	C82	ECUV1E104ZFV	`		
		0.00				0.1	S	1
C8	PQCUV1C224ZF	0.22		C83	ECUV1H333KDV	0.033	s	1
C9	ECUV1H151JCV	150P	1 1	C84	Not Used			
			1 . 1	C85	ECUV1H223KBV	0.022	s	1
C10	ECEA1CKS100	10	1 1	C86	ERJ3GEY0R00	0		1
C11	ECUV1E104ZFV	0.1	1	C87	Not Used	!		
C12 .	Not Used			C88	ECUV1H223KBV	0.022	s	1
C13	Not Used			C89	ECEA1HKS100	10		1
C14	PQCUV1H333JC	0.033				1	l	
C15	ECUV1H101JCV	100P	1	C90	ECEA1AKS221	220	l	1
C16	ECUV1H472KBV	4700P	1 1	C91	ECUV1E104ZFV	0.1	S	1
C17	ECUV1E104ZFV	0.1		C92	Not Used	1	I	
C18	PQCUV1E104MD	0.1	1	C93	ECEA0JKS220	22	ı	1
C19	ECST0JY106	10	1 1	C94	PQCUV1C105ZF	1	s	1
		1		C95	PQCUV1H222KB	2200P	1	1
C20	PQCUV1E104MD	0.1	1 1	C96	PQCUV1E473MD	0.047	l	1
C21	PQCUV1E334ZF	0.33	1 1	C97	ECST0JX226	22	ı	1
C22	ECUV1E104ZFV	0.1	1	C98	ECST0JX226	22	- 1	1
C23	ECST0JY106	10	1 1	C99	ECUV1E105ZF	1	s	1
			1					

Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	Part Name & Description	Pcs/Set
C100 C101	PQCUV1H103KB Not Used	0.01	1			RF UNIT PARTS	
C101 C102	Not Used			PCB2	PQLP10153S	P.C.BOARD ASS'Y (RTL)	1 1
C102	ECUV1H223KBV	0.022	S 1	PCB2	PQLP 101555	P.C.BOARD ASS T (RTL)	1 '
C104	ECUV1H332KBV	0.0033		1			1
		220	S 1	1		(ICE)	i
C105	ECEA0JK221	220	ે '	10001	DOMINAC 400 4 CD	(ICS)	
C106~129	Not Used			IC201 IC202	PQVIM64084GP PQVIPC2746TE	IC IC	1.
C130 C131~139	ECUV1H102KBV Not Used	1000P	1				ŀ
C140	ECUV1H222KBV	2200P	1	Q201	2SC4099NT106	(TRANSISTORS) TRANSISTOR(SI)	1
C141~149	Not Used			Q202 Q203	2SC4099NT106 2SC4571R77	TRANSISTOR(SI)	1
C150	ECHMIE 1047EM	0.1	1	Q204	2SC3356R24		
	ECUV1E104ZFV	0.1	'	Q205	2SC4571R77	TRANSISTOR(SI)	1
C151	Not Used	4000				` '	3 1
C152 C153~159	ECUV1H101JCV Not Used	100P	1	Q206	2SC4226R24	TRANSISTOR(SI)	1
C160	Not Used					(COILS)	
C161	ECST1CY475	4.7	1 1	L201	PQLQR2N1R0KT	COIL	1
C162	ECST0JY475	4.7	1	L202	PQLQR2N1R0KT	COIL	1
C163	ECUV1H102KBV	1000P	1 1	L203	PQLQR2M4N7K	COIL	1
C164	ECUV1H473MDV	0.047	1.	L204	PQLQR2M10NKT	COIL	1
C165-169	Not Used			L205	PQLQR2M10NKT	COIL	1
				L206	MQLRE12NJF	COIL	1
C170	Not Used			L207	MQLRE10NJF	COIL	1
C171	PQCUV1C105ZF	1	1 1	L209	PQLQR2M4N7K	COIL	1
C172	PQ4R10XJ000	0	. 1	L210	PQLQR2M4N7K	COIL	1
C173	ECUV1E104ZFV	0.1	1 1	L220	PQLQR2M8N2KT	COIL	1 1
C174	PQCUV1E104MD	0.1	1 1	L221	PQLQR2M8N2KT	COIL	1
C175~199	Not Used			C233	PQLQR2M10NKT	COIL	i
C200	PQCUV1E104MD	0.1	1			(000) 47070	
C201~249	Not Used			VC0201	PQV016Z	(OSCILLATORS) OSCILLATOR	1
C250 C251~299	PQ4R10XJ000 Not Used	0	1	VC0202	PQV015Z	OSCILLATOR	1
C300	EECW5R5D473	0.047	1			(SAW FILTERS)	
		0.047	'	E201	PQVCM21M8PJ2	· ·	
C301~319	Not Used			F201 F202	PQVCM21M8PJ2 PQVSM959E11L	CERAMIC FILTER	1 !
Caan	Not Hood	1				CERAMIC FILTER	1 1
C320	Not Used	10000		F203	PQVSM914E11L	CERAMIC FILTER	1 !
C321 C322~329	ECUV1H102KBV Not Used	1000P	1	F204	EZFN914AM01	CERAMIC FILTER	1
C330	ECUV1H682KBV	6800P	1			(OTHERS)	
C331~499				VC201	PQCVTZB10ZA	TRIMMER CAPACITOR	1
		1		X201	PQVC01280K4Z	CRYSTAL OSCILLATOR	1
C500	Not Used	1		CN201	PQJS10A82Z	CONNECTOR	1
C501	ECUV1H103KBV	0.01	1	1			ļ
C502~599	Not Used						
C600 C601~659	ECUV1E104ZFV Not Used	0.1	1				
C660~665	Not Used						
C666	ECKD3D681KBP	680P	1 1	1			
C667	Not Used	1	'	1	1	,	
C668	ECST1CC336	33	1 1	1 .			
	Not Used		'			(RESISTORS)	
		1		R201	ERJ3GEYJ220	22	1
C900	ECUV1E104ZFV	0.1	1	R202	ERJ3GEYJ680	68	1
C901	ECUV1E104ZFV	0.1	1	R203	ERJ3GEYJ000	0	1
C902	PQCUV1C105ZF	1	1	R204	ERJ3GEYJ153	15K	1
		1		R205	ERJ3GEYJ153	15K	1
		1		R206	ERJ3GEYJ563	56K	1
		1		R207	ERJ3GEYJ470	47	1
	1	1 '		R208	ERJ3GEYJ104	100K	1
		· 1		R209	ERJ3GEYJ272	2.7K	1
		1					

Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	Value		Pcs/Set
R210	ERJ3GEYJ104	100K	1	C222	ECUV1H100DCV	10P		1
R211	ERJ3GEYJ122	1.2K	1 1	C223	ECUV1H270JCV	27P		1
R212	ERJ3GEYJ561	560	1 1	C224	ECUV1H270JCV	27P		1
R213	ERJ3GEYJ470	47	1 1	C225	Not Used	1		
R214	ERJ3GEYJ104	100K	1 1	C226	Not Used	1		
R215	ERJ3GEYJ681	680	1 1	C227	ECUV1H102KBV	1000P		1
R216	Not Used			C228	ECUV1H020CCV	2P		1
R217	Not Used	į.	1 1	C229	ECUV1H102KBV	1000P		1
R218	ERJ3GEYJ820	82	l 1 l					
R219	ERJ3GEYJ123	12K	1 1	C230	ECUV1H040CCV	4P	i	1
1				C231	Not Used	T"		'
R220	ERJ3GEYJ470	47	1 1	C232	ECUV1H102KBV		- 1	
R221	ERJ3GEYJ100	10				0.001	- 1	1
R222	ERJ3GEYJ123		1 1	C234	ECUV1H020CCV	2P	- 1	1
R223		12K	1	C235	ECUV1H101JCV	100P	- 1	1
	ERJ3GEYJ473	47K	1 1	C236	ECUV1H101JCV	100P		1
R224	ERJ3GEYJ683	68K	1 .	C237	Not Used		- 1	
R225	ERJ3GEYJ470	47	1 1	C238	ECUV1H040CCV	4P .		1 1
R226	ERJ3GEYJ470	47	1	C239	Not Used			
R227	ERJ3GEYJ390	39	1				- 1	
R228	ERJ3GEYJ681	680	l 1 l	C240	ECUV1H040CCV	4P	ſ	1 1
R229	ERJ3GEYJ820	82	1	C241	ECUV1H102KBV	0.001		i
			'	C242	ECUV1H102KBV	0.001		
R230	ERJ3GEYJ563	56K	1	C243	Not Used	0.001	I	1
R231	ERJ3GEYJ153	15K	1			0.004		. 1
R232	ERJ3GEYJ153	15K		C244	ECUV1H102KBV	0.001	ł	1
R233	ECUV1H010CCV	1P	1	C245	ECUV1H101JCV	100P	1	1
R234	ERJ3GEYJ100		1	C246	ECUV1H020CCV	2P	- 1	1
		10	1	C247	ECUV1E104ZFV	0.1	s	1
R235~239	Not Used			C248	Not Used		- 1	- 4
l		1	1	C249	ECST0JX226	22	1	1
R240	ERJ3GEYJ272	2.7K	1				1	i
R241~259	Not Used	1		C250	Not Used			
i l		1		C251	ECUV1H102KBV	0.001	- 1	1
R260	Not Used			C252	ECUV1C224KB	0.22		1
R261	ERJ3GEYJ000	0	1	C253	ECUV1H562KBV	0.0056	1	1
R262~269	Not Used	1		C254	ECUV1H562KBV	0.0056	- 1	- i
		1		C255~259	Not Used	0.0000	- 1	' I
R270	ERJ3GEYJ000	lo l	1				- 1	- 1
			· 1	C260	Not Used	1		
				C261	Not Used	1	i	ŀ
		i -		C262	ECUV1H101JCV	100P	1	. 1
		l '	1	0202	200111101001	1007	- 1	1
		. i		L208	ECUV1H101JCV	100P	- 1	
								1
		(CAPACITORS)						j
	Not Used					1	- 1	- 1
C202	ECST0JX226	22	1	1	*			
C203	PQCUV1C105ZF	1	1	1 1				
C204	ECUV1H101JCV	100P	1					
	ECUV1H821KBV	820P	1	1 1		1	- 1	·
-	Not Used	1020	' 1	1 1		*		
	ECUV1H332KBV	0.0033		1 1		1		
	ECUV1H332KBV		1	1 1		1.	- 1	ľ
_		0.0033	- 1				- 1	
0209	ECUV1E104ZFV	0.1 S	1	1 1				- 1
2212				1 ' 1			- 1	
	ECUV1H103KBV	0.01	1	1 1				
,	ECST0JX226	22	1				- 1	1
	ECUV1H103KBV	0.01	1	1		i	- !	J
	ECUV1H101JCV	100P	1			l .	1	- 1
C214	Not Used		- 1	1 1		1 .	- 1	
	ECUV1H040CCV	4P	1			1 -	- 1	
_	ECUV1H103KBV	0.01		1 1				
_		27P	1	1 1		l	I	- 1
C217 F	ECUVIDAD ION		1 1				•	
	ECUV1H270JCV		,	1			i	į.
C218	ECUV1E104ZFV	0.1. S	- i					
C218			,					
C218 C219	ECUV1E104ZFV Not Used	0.1	1					
C218 C219 C220	ECUV1E104ZFV		,					

Pcs/Set

Part Name & Description

MAIN P.C.BOARD PARTS

This replacement parts list is Denmark version only. Refer to the simplified manual (cover) for other areas.

Ref. No.

Part No.

	· P (A (.)	EMEN.	ГРА	RTS I	IST								
	LAOI												
			Mode	I KX-1	19300D	MR							
Note:		n											
1. RTL (Retentio		,	Detection '	Time in Kmi	and for this								
The marking of After the disc													
to be available for a specific period of time. The retention period of availabilit is dependent on the type of assembly, and in accordance with the laws													
governing par			,										
After the end	•		nbly will no	longer be	available.								
2. Important safe	ety notice.		•										
Components i	identified by	a A marl	special c	haracteristi	cs importa	nt for							
safety. When													
specified part	s.		•										
3. The S mark in	ndicates servi	ice standard	parts and	l may differ	from prod	luction							
parts.													
4. RESISTORS 8													
Unless otherw													
All resistors a													
All capacitors			(μF)P=μ	μF									
	ige of Hesisto	or				*Type &Wattage of Resistor							
Туре													
	IERY-Mot	al Film	POAR-Ca	rhon		_							
ERC:Solid	ERX:Met		PQ4R:Ca		or .	1							
ERC:Solid ERD:Carbon	ERG:Me	tal Oxide	ERS:Fus	ble Resist		1							
ERC:Solid		tal Oxide	ERS:Fus										
ERC:Solid ERD:Carbon PQRD:Carbon Wattage 10,16:1/8W	ERG:Met ER0:Met	tal Oxide al Film 4W [12	ERS:Fus	ble Resist		3:34							
ERC:Solid ERD:Carbon PQRD:Carbon Wattage	ERG:Met ER0:Met	tal Oxide al Film 4W [12	ERS:Fusi ERF:Cerr	ble Resiste ent Resiste	or	3:3W							
ERC:Solid ERD:Carbon PQRD:Carbon Wattage 10,16:1/8W *Type & Voltage Type	ERG:Met ER0:Met 14,25:1/4 ge of Capacit	tal Oxide al Film 4W 12 or	ERS:Fusi ERF:Cerr :1/2W	ble Resiste ent Resiste 1:1W	2:2W								
ERC:Solid ERD:Carbon PORD:Carbon Wattage 10,16:1/8W *Type & Voltag Type ECFD:Semi-Co	ERG:Met ER0:Met 14,25:1/4 ge of Capacit	tal Oxide al Film W 12 or ECCD,	ERS:Fusi ERF:Cerr :1/2W	tible Resisterent	2:2W								
ERC:Solid ERD:Carbon PORD:Carbon Wattage 10,16:1/8W *Type & Voltag Type ECFD:Semi-Co ECQS:Styrol	ERG:Met ER0:Met 14,25:1/4 ge of Capacit	tal Oxide al Film 4W 12 or ECCD, ECQE,	ERS:Fusi ERF:Cerr :1/2W ECKD,ECI ECQV,ECI	1:1W BT,PQCBC	2:2W								
ERC:Solid ERD:Carbon PQRD:Carbon Wattage 10,16:1/8W *Type & Voltag Type ECFD:Semi-Co ECQS:Styrol PQCUV:Chip	ERG:Met ER0:Met 14,25:1/4 ge of Capacit	tal Oxide al Film 4W 12 or ECCD, ECQE, ECEA,	ERS:Fusi ERF:Cerr :1/2W ECKD,ECI ECQV,ECI ECSZ : EI	1:1W BT,PQCBC QG: Polye ectrolytic	2:2W								
ERC:Solid ERD:Carbon PQRD:Carbon Wattage 10,16:1/8W *Type & Voltag Type ECFD:Semi-Co ECQS:Styrol PQCUV:Chip ECQMS:Mica	ERG:Met ER0:Met 14,25:1/4 ge of Capacit	tal Oxide al Film 4W 12 or ECCD, ECQE, ECEA,	ERS:Fusi ERF:Cerr :1/2W ECKD,ECI ECQV,ECI	1:1W BT,PQCBC QG: Polye ectrolytic	2:2W								
ERC:Solid ERD:Carbon PQRD:Carbon Wattage 10,16:1/8W *Type & Voltag Type ECFD:Semi-Co ECQS:Styrol PQCUV:Chip ECQMS:Mica Voltage	ERG:Met ER0:Met 14,25:1/4 ge of Capacit enductor	tal Oxide al Film 4W 12 or ECCD, ECQE, ECGA, ECQP	ERS:Fusi ERF:Cerr :1/2W ECKD,ECI ECQV,ECI ECSZ : EI : Polyprop	1:1W BT,PQCBC QG: Polye ectrolytic	2:2W : Ceramic ster								
ERC:Solid ERD:Carbon PQRD:Carbon Wattage 10,16:1/8W *Type & Voltag Type ECFD:Semi-Co ECQS:Styrol PQCUV:Chip ECQMS:Mica	ERG:Met ER0:Met 14,25:1/4 ge of Capacit anductor	tal Oxide al Film 4W 12 or ECCD, ECQE, ECEA, ECQP	ERS:Fusi ERF:Cerr :1/2W ECKD,ECI ECQV,ECI ECSZ : EI : Polyprop	1:1W BT,PQCBC QG: Polye ectrolytic	2:2W								
ERC:Solid ERD:Carbon PQRD:Carbon Wattage 10,16:1/8W *Type & Voltage Type ECFD:Semi-Co ECQS:Styrol PQCUV:Chip ECQMS:Mica Voltage ECQ Type	ERG:Met ER0:Met 14,25:1/4 ge of Capacit anductor ECQG ECQV Type	tal Oxide al Film 4W 12 or ECCD, ECQE, ECEA, ECQP	ERS:Fusi ERF:Cerr :1/2W ECKD,ECI ECQV,ECI ECSZ : EI : Polyprop	11:1W BT,PQCBC QG: Polyelectrolytic	2:2W : Ceramic ster								
ERC:Solid ERD:Carbon PQRD:Carbon Wattage 10,16:1/8W *Type & Voltag Type ECFD:Semi-Co ECQS:Styrol PQCUV:Chip ECQMS:Mica Voltage ECQ Type 1H: 50V	ERG:Met ER0:Met 14,25:1/4 ge of Capacit anductor ECQG ECQV Type 05: 50V	tal Oxide al Film 4W 12 or ECCD, ECQE, ECEA, ECQP ECSZ	ERS:Fusi ERF:Cerr :1/2W ECKD,ECI ECQV,ECI ECSZ : EI : Polyprop	11:1W BT,PQCBC QG: Polyelectrolytic hylene :6.3V	2:2W : Ceramic ster Others	:35V							
ERC:Solid ERD:Carbon PORD:Carbon Wattage 10,16:1/8W *Type & Voltag Type ECFD:Semi-Co ECQS:Styrol PQCUV:Chip ECQMS:Mica Voltage ECQ Type 1H: 50V 2A:100V	ERG:Met ER0:Met 14,25:1/4 ge of Capacit anductor ECQG ECQV Type 05: 50V 1:100V	tal Oxide al Film 4W 12 or ECCD, ECQE, ECEA, ECQP ECSZ OF:3.1 1A:10	ERS:Fusi ERF:Cerr :1/2W ECKD,ECI ECQV,ECI ECSZ : EI : Polyprop Type	11:1W BT,PQCBC QG: Polyelectrolytic lylene :6.3V :10V	: Ceramic ster Others 1V 50,1H	:35V :50V							
ERC:Solid ERD:Carbon PQRD:Carbon Wattage 10,16:1/8W *Type & Voltag Type ECFD:Semi-Co ECQS:Styrol PQCUV:Chip ECQMS:Mica Voltage ECQ Type 1H: 50V	ERG:Met ER0:Met 14,25:1/4 ge of Capacit anductor ECQG ECQV Type 05: 50V	tal Oxide al Film 4W 12 or ECCD, ECQE, ECEA, ECQP ECSZ	ERS:Fusi ERF:Cerr :1/2W ECKD,ECI ECQV,EC ECSZ : EI : Polyprop Type 5V 0J V 1A V 1C	11:1W BT,PQCBC QG: Polyelectrolytic lylene :6.3V :10V	: Ceramic ster Others 1V 50,1H 1J	:35V							

Ref. No.	Part No.	Part Name & Description	T	cs/Set
		CABINET & ELECTRICAL PARTS	_	
101	PQAX3P19Z	SPEAKER	Т	1
102	PQBD10032Y1	KNOB, POWER	S	1
103	PQGT12184Z	NAME PLATE	- 1	1 1
104	PQHG10286Z	SPACER (MIC)	- 1	1
105	PQHG10300Z	SPACER (SPEAKER)	- 1	1 .
106	PQHG10326Z	SPACER (RINGER)	- 1	1
107	PQHR10315Z	LCD HOLDER	- 1	1
108	PQHX10085Z	ID COVER	- 1	1
109	PQHX10494Z	SPACER (RF)	- 1	1
110	PQHX10503Z	SPACER (MIC)	.	1
111	PQHX10560Z	INSULATOR (RF)	- 1	1
112	PQJT10085Z	BATTERY TERMINAL	S	3
113	PQJT10086Z	BATTERY TERMINAL	- 1	2
114	PQJT10090Z	BATTERY TERMINAL	S	5
115	PQKE10038Z1	HANGER	- 1	1
116	PQKF10119Z1	CABINET PLATE		1
117	PQSA808X	ANTENNA	- 1	1
118	PQSX10016Z1	BUTTON, KEY	- 1	1
119	PQYM10046W1	CABINET BODY	- 1	1
120	XTN26+6J	TAPPING SCREW	- 1	2
121	XTW26+12F	TAPPING SCREW	- 1	4
122	XWC26BFN	WASHER	- 1	1 .
			- 1	
			- 1	
			- 1	
			- 1	

		MAIN F.O.BOARD FARTS		
PCB100	PQWPT9300DMR	P.C.BOARD ASS'Y (RTL)		1
IC1 IC2 IC3 IC4 IC5 IC6	AN6159FA PQVIXC3002MR PQVIA8184SLT PQVISC78184D PQVI93LC46XI PQVI4829C23H	(ICS) IC IC IC IC IC		1 1 1 1 1
Q1 Q5 Q6 Q7 Q9 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q21	2SD1328 PQVTDTC143E 2SC4116 2SC4116 2SB1218A PQVTDTC143E PQVTDTC143E PQVTDTC143E PQVTDTA143EU PQVTDTB123E 2SD1819A PQVTDTB123E PQVTDTB123E PQVTDTB123E PQVTDTB123E PQVTDTB123E PQVTDTB123E PQVTDTB123E PQVTDTA143EU 2SD1819A PQVTDTC144TU	(TRANSISTORS) TRANSISTOR(SI)	s	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
D1 D3 D5 D11 D12 D13 D14 D15 D16 D17	MA8150 MA110 PQVDRB751H4 MA729 MA729 MA729 MA729 MA110 MA8039 MA110	(DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
VR1 VR3 VR4	EVM1YSX50B24 EVM1YSX50B54 EVM1SSX50B53	(VARIABLE RESISTORS) VARIABLE RESISTOR VARIABLE RESISTOR VARIABLE RESISTOR		1 1 1
X1 X3 X4	PQVCE2094N4R PQVBTCS4.00M PQVCE3276N9Z	(CRYSTALS) CRYSTAL OSCILLATOR CRYSTAL OSCILLATOR CRYSTAL OSCILLATOR		1 1 1
CN1 CN2	PQJP10B01Z PQJS36A62Z	(CONNECTORS) CONNECTOR (RF) CONNECTOR (LCD)		1 .
E1 E2 E3 F1 L1 R128 S1	PQADB5567AX2 PQEFBQM111G3 PQJM122Z PQVFSFPC455E PQVFCDBC455M PQLQR1RM601 ESD11H120	(OTHERS) LIQUID CRYSTAL DISPLAY BUZZER MICROPHONE CERAMIC FILTER CERAMIC FILTER COIL SWITCH, POWER	s	1 1 1 1 1 1

Ref.	No. Part No.	Value	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
		(RESISTORS)		R67	ERJ3GEYJ474	470K	1
R1	ERJ3GEYJ684	680K	1	R68	Not Used		1 '
R2	ERJ3GEYJ100	10	1 1	R69	Not Used		
R3	ECUV1H472KBV	0.0047	1 1				1
R4	ERJ3GEYJ332	3.3K	1 1	R70	Not Used	i	i
R5	ERJ3GEYJ393	39K	1 1	R71	PQ4R10XJ000	o	1.
R6	Not Used		1 '	R72	PQ4R10XJ000	o	1 !
R7	ERJ3GEYJ473	47K	1 1	R73	PQ4R10XJ221	220	1 1
R8	ERJ3GEYJ473	47K		R74~78	Not Used	220	1 1
R9	ERJ3GEYJ183	18K	1 1				- 1
	2.10002.10100	TOR.	1 ' 1	R79	ERJ3GEYJ103	10K	1
1			1 1				1
R10	ERJ3GEYJ183	18K	1	R80	ERJ3GEYJ104	100K	1 1
R11	ERJ3GEYJ683	68K	1 1	R81	ERJ3GEYJ683	68K	l i
R12	ERJ3GEYJ823	82K	1 1	R82~86	Not Used		1 '
R13	ERJ3GEYJ222	2.2K	1	R87	ERJ3GEYJ100	10	
R14	ERJ3GEY0R00	lo	1 1	R88	ERJ3GEYJ103	10K	1
R15	ERJ3GEYJ104	100K	1 1	R89	ERJ3GEYJ103		1 1
R16	ERJ3GEYJ473	47K	l i l	1103	EnoodE10100	10K	1
R17	Not Used		1 ' 1	200			
R18		SECON	1 . 1	R90	ERJ3GEYJ104	100K	1 1
R19	ERJ3GEYJ564	560K	1 1	R91	ERJ3GEYJ104	100K	1
Luia	ERJ3GEYJ103	10K	1 1	R92	ERJ3GEYJ104	100K	1
Boo	En loomities			R93	ERJ3GEYJ104	100K	1 1
R20	ERJ3GEYJ183	18K	1 1	R94	ERJ3GEYJ103	10K	1 1
R21	ERJ3GEYJ223	22K	1	R95	ERJ3GEYJ103	10K	1 1
R22	ERJ3GEYJ183	18K	1 1	R96	ERJ3GEY0R00	0	1 1
R23	ERJ3GEYJ104	100K	1 1	R97	ERJ3GEY0R00	lo	
R24	ERJ3GEYJ184	180K	1 1	R98	ERJ3GEY0R00	lo	
R25	ERJ3GEYJ823	82K	1	R99	ERJ3GEY0R00	lő	
R26	ERJ3GEYJ333	33К	l i l	1	E 100 GE 101100	l ^o	1 1
R27	ERJ3GEYJ562	5.6K	1 i 1	R100	ED DOEN HOL	400	1 . 1
R28	ERJ3GEY0R00	0			ERJ3GEYJ101	100	- 1 1 1
R29	ERJ3GEYJ472	4.7K	1 1	R101	ERJ3GEYJ101	100	1 1
1123	EN03GE10472	4.78	1 1	R102	ERJ3GEYJ101	100	1 1 1
Ban	ED IOCEVIOTA		1 . 1	R103	ERJ3GEYJ101	100	1 1
R30	ERJ3GEYJ274	270K	1 1	R104	ERJ3GEYJ100	10 .	1 1 1
R31	ERJ3GEYJ103	10K	1 1	R105	Not Used		i i
R32	Not Used		1 1	R106	ERJ3GEYJ820	82	1 1
R33	ERJ3GEYJ222	2.2K	1 1	R107	ERJ3GEYJ220	22	1 1
R34~3	6 Not Used			R108	ERJ3GEYJ101	100	
R37	ERJ3GEY0R00	0	1 1	R109	Not Used	1.00	
R38	ERJ3GEYJ105	1M	1 1			1	1 1
R39	ERJ3GEYJ102	1K	l i l	R110	ERJ3GEYJ102	1K	1.1
l .			1 1	R111	Not Used	l'h	1 1
R40	Not Used		1 1	R112	ERJ3GEYJ102	L	1.1
R41	ERJ3GEYJ100	10	1	R113~115	Not Used	1K	1 1 1
R42	ERJ3GEYJ100	10	1 ; 1	R116			1 1
R43	Not Used	1.0	1 ' 1		ERJ3GEYJ224	220K	1 1 1
R44	ERJ3GEYJ100	10	1 . 1	R117	ERJ3GEYJ271	270	1 1 1
R45				R118	ERJ3GEYJ392	3.9K	1 1
R46	ERJ3GEYJ100	10	1 1	R119	Not Used	l	1 1
R47	ERJ3GEYJ102	1K	1 1				1 1
	ERJ3GEYJ102	1K	1 1	R120	PQ4R10XJ000	0	1 1
R48	ERJ3GEYJ102	1K	1 1	R121	PQ4R10XJ000	0	
R49	ERJ3GEYJ102	1K	.1	R122	Not Used		1 1
		1		R123	ERJ3GEYJ102	1K	1 1
R50	Not Used			R124	ERJ3GEYJ102	ik	1 1
R51	ERJ2GEJ124	120K	1	R125	ERJ3GEYJ102	ik ·	1 1 1
R52	Not Used	1		R126	ERJ3GEYJ102	1K	
R53	ERJ2GEJ563	56K	1	R127	ERJ3GEYJ102		1 !
R54	Not Used		'	R129		1K	1
R55	ERJ3GEYJ273	27K	1	11.29	Not Used	1	1. 1
R56	Not Used		'	D400	ED 100011		
R57	ERJ2GEJ153	1EV		R130	ERJ3GEYJ562	5.6K	1 1
R58		15K	1	R131	ERJ3GEY0R00	0	1 1
	Not Used			R132	ERJ3GEY0R00	0	1 1
R59	Not Used	1		R133~139	Not Used	1	1 1
						1	
R60	ERJ3GEYJ102	1K	1	R140~148	Not Used	1.	1 1
R61	ERJ3GEYJ102	1K	1	R149	ERJ3GEYJ183	18K	1, 1
R62	ERJ3GEYJ222	2.2K	1 1	8		1.5%	1 1
R63	ERJ3GEYJ334	330K	l i l	R150~152	Not Used		
R64	ERJ3GEYJ103	10K	il			10	1 . [
R65	ERJ3GEYJ472	4.7K			ERJ3GEY0R00	0	1 1
R66	ERJ3GEYJ124	120K	1		Not Used		1 1
	12.100GE 10124	1201	1	R155	ERJ3GEYJ823	82K	1 1

Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
R156	Not Used			R332	ERJ2GEJ103	10K	1
R157	ERJ3GEY0R00	0	1 1 1	R333	ERJ2GEJ103	10K	1
R158	Not Used		1 1	R334	ERJ2GEJ103	10K	1
R159	ERJ3GEYJ103	10K	1	R335	ERJ2GEJ103	10K	1
-100 100				R336	ERJ2GEJ103	10K	1
	Not Used	1.50%	1 . 1	R337~349	Not Used		
R164	ERJ3GEYJ154	150K	1 1			L	
R165	ERJ3GEYJ183	18K	1 1	R350	PQ4R10XJ225	2.2M	1 1
R166	ERJ3GEYJ152	1.5K					
R167	ERJ3GEYJ562	5.6K	1 1	1		1	l
R168	ERJ3GEY0R00	0	1 1				l
R169	ERJ3GEY0R00	0	1 1			1.	
R170	Not Used					ľ	
R171	Not Used			1		1	
R172	ERJ3GEYJ222	2.2K	1 . 1	ŀ		}	
R173	ERJ3GEYJ101	100	1 1	ı	•		
R174	ERJ3GEYJ222	2.2K		i			
R175	ERJ3GEYJ102	1K		1		(CARACITORS)	
R176	ERJ3GEYJ104	100K		C1	ECST0GX476	(CAPACITORS)	
R177	ERJ3GEYJ152	1.5K		C2	ERJ3GEYJ392	47 3.9K	1 1
R178	ERJ3GEY0R00	0		C3	PQCUV1E104MD	0.1	
R179	ERJ3GEYJ102	lık	i	C4	PQCUV1E104MD	0.1	l ¦
,	LINGOGETOTOZ		i 'I	C5	ECUV1H123KBV	0.012	
R180	ERJ3GEYJ824	820K	1 1	C6	ECUV1H123KBV	0.012	1 1
R181	ERJ3GEYJ681	680		C7.	PQCUV1C224ZF	0.22 S	li
R182	ERJ3GEYJ102	1K	1 1	C8	ECST0JY106	10 8	1
R183	ERJ3GEYJ103	10K	1 1	C9	ECST0JY335	3.3	i
R184~189	Not Used		•				
			1	C10	PQCUV1E104MD	0.1	1
R190~194	Not Used			C11	ECST0GY226	22	1
R195	ERJ3GEY0R00	lo .	1	C12	PQCUV1E104MD	0.1 S	1
R196	ERJ3GEYJ102	1K	1	C13	ECUV1H220JCV	22P	1 .
R197	PQ4R10XJ221	220	1	C14	ECUV1H180JCV	18P	1
R198~299	Not Used			C15	ECUV1H102KBV	1000P	1
				C16	ECUV1H153KBV	0.015 S	1
R300	Not Used			C17	ECUV1H153KBV	0.015 S	1
R301	ERJ2GEJ103	10K	1	C18	ECUV1H101JCV	100P	1
R302	ERJ2GEJ103	10K	1	C19	ECUV1H102KBV	1000P	1
R303	ERJ2GEJ103	10K	1 1			1.	
R304	ERJ2GEJ103	10K	1 1	C20	PQCUV1C105ZF	1 S	1
R305	ERJ2GEJ103	10K	1 1	C21	ECUV1H822KBV	0.0082	1
R306 R307	ERJ2GEJ103	10K 10K	1	C22	ECST0JX226	22	1
R308	ERJ2GEJ103 ERJ2GEJ103	10K	1	C23	PQCUV1E104MD PQCUV1E104MD	0.1	1
R309	ERJ2GEJ103	10K	1	C24 C25	ECUV1H103KBV	0.1 0.01 S	1
11009	ENJEGENTOS	TOK	' '	C26	PQCUV1H103KB	0.01 S S	1
R310	ERJ2GEJ103	10K	1	C27	PQCUV1H223MD	0.022	1
	ERJ2GEJ103	10K	i	C28	ECST0JY475	4.7	1 1
	ERJ2GEJ103	10K	l i l	C29	ECSTOJY106	10 S	1
	ERJ2GEJ103	10K				<u>"</u>	'
I	ERJ2GEJ103	10K	1	C30	ECST0JY475	4.7	1
	ERJ2GEJ103	10K	1	C31	PQCUV1E104MD	0.1	1
	ERJ2GEJ103	10K	. 1	C32	ECST0JY106	10 S	1 1
	ERJ2GEJ103	10K	1	C33	PQCUV1E104MD	0.1	1
	ERJ2GEJ103	10K	1		PQCUV1C105ZF	1 S	1
	ERJ2GEJ103	10K	1	C35	PQCUV1C105ZF	1 S	1
				C36	ECST0JY106	10 S	1
R320	ERJ2GEJ103	10K		C37		0.1	1
	ERJ2GEJ103	10K	1	C38	PQ4R10XJ000	o	1
	ERJ2GEJ103	10K	. 1	C39	Not Used		
	ERJ2GEJ103	10K	1				
	ERJ2GEJ103	10K	1	C40	ECUV1H180JCV	18P	1
	ERJ2GEJ103	10K	1	C41	PQCUV1H103KB	0.01 S	1
	ERJ2GEJ103	10K	1	C42	Not Used	· ·	
	ERJ2GEJ103	10K	1	C43	PQCUV1E104MD	0.1 S	1
	ERJ2GEJ103	10K	1 1	C44	ECUV1E104ZFV	0.1 S	1
R329	ERJ2GEJ103	10K	1.	C45	ECUV1H103KBV	0.01 S	1
Booc	FD 100F 1155			C46	Not Used		
,	ERJ2GEJ103	10K	1		ECEA0JK221	220	1
R331	ERJ2GEJ103	10K	1	C48	Not Used		

Ref. No.	Part No.	Part Name & Descripti	ion	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
C49	ECST0GY226	22		1			(COILS)	
050	50070 N4400	1.0	_	1 . 1	L201	PQLQR2N1R0KT	COIL	1
C50	ECST0JY106	10	S	1 1	L202	PQLQR2N1R0KT	COIL	1
C51	ECST0GY226	22		1 1	L203	PQLQR2M4N7K	COIL	1
C52~59	Not Used	1			L204	MQLRE10NJF	COIL	1
		ł		i I	L206	MQLRE12NJF	COIL	1
C60	Not Used	i			L207	MQLRE10NJF	COIL	1 1
C61	ECUV1H180JCV	18P		1	L208	MQLRE10NJF	COIL	1 1
C62	ECST0JX226	22		1 1	L209	PQLQR2M4N7K	COIL	1
C63	PQCUV1H683MD	0.068	S	1 1	L210	PQLQR2M4N7K	COIL	1 :
C64	PQCUV1C105ZF	1	-	1 1			1	1 '
		I.	S	1	L213	PQLQR2M4N7K	COIL	1 1
C65	PQCUV1H473MD	0.047	_	1	L220	MQLRE10NJF	COIL	1
C66	ECST0JY106	10	S	1 1				
C67	PQCUV1C105ZF	1	S	1	1			
C68	PQCUV1C105ZF	1	S	1	L221	PQLQR2M8N2KT	COIL	1 1
C69	PQCUV1C105ZF	[1	S	1	C233	MQLRE10NJF	COIL	1 1
				1 1	1	*		
C70	PQCUV1C105ZF	1	S	1 1	1	1	1	1 1
C71	ECUV1H222KBV	0.0022	_	ΙiΙ			(OSCILLATORS)	1 1
C72	Not Used	1		'	VC0201	PQV022Z	OSCILLATOR	1 . !
C73	Not Used	1			VC0201	PQV021Z		1 !
C74	ECUV1H680JCV	68P		, I	V 00202	POVOZIZ	OSCILLATOR	1 1
C75	PQCUV1C105ZF			1				1 1
		1	_	1	1		l .	
C76	ECUV1H153KBV	0.015	S	1			(SAW FILTERS)	1 1
C77	ECST0JX226	22		1	F201	PQVCM21M8PJ2	CERAMIC FILTER	1 1
C78	PQCUV1C105ZF	1	S	1	F202	PQVSM914E11L	CERAMIC FILTER	1 1
C79	Not Used				F203	PQVSM959E11L	CERAMIC FILTER	1 1
					F204	EZFN959AM01	CERAMIC FILTER	1 1 1
C80	PQ4R10XJ000	0		1				1 ' 1
C81	PQCUV1C105ZF	l ₁	s	1	1			1 1
C82	PQCUV1C105ZF	li .	s	i			(OTHERS)	1 1
C83~99	Not Used	1'	٦	'	VC201	PQCVTZB10ZA	,	1 . 1
000 99	1401 0360			1			TRIMMER CAPACITOR	1 1 1
0100	DOOLINA OA OEZE	l.			X201	PQVC01280N4Z	CRYSTAL OSCILLATOR	1 1
C100	PQCUV1C105ZF	11	Ş	1	CN201	PQJS10A82Z	CONNECTOR	1 1
C101~199	Not Used				1			1
		•		ŀ				1
C200	ECUV1H100DCV	10P	S	1	1		1	1
C201	ECUV1E104ZFV	0.1	S	1	ł		1	1 1
C202	ECUV1H561JCV	560P	- 1	1 1		1	· ·	1 1
					1			1 1
J1	ECUV1H222KBV	2200P		1				
							(RESISTORS)	
!		I			R201	ERJ3GEYJ100	10	1 1
i		1			R202	ERJ3GEYJ150	15	1 1
		1	- 1		R203	ERJ3GEYJ102	1K	1 1
;		1			R204	ERJ3GEYJ153	15K	1 1
					R205	ERJ3GEYJ153	15K	l i l
	Ī			1	R206	ERJ3GEYJ563	56K	1 1
							47	
	· · · · · · · · · · · · · · · · · · ·	RF UNIT PARTS			IR207	IERJ3GEY.1470		
		RF UNIT PARTS			R207 R208	ERJ3GEYJ470 ERJ3GEYJ104		
PCB200	POLP10154S				R208	ERJ3GEYJ104	100K] 1
PCB200	PQLP10154S	P.C.BOARD ASS'T (RTL)		1				
PCB200	PQLP10154S			1	R208 R209	ERJ3GEYJ104 ERJ3GEYJ272	100K 2.7K	1 1
PCB200	PQLP10154S	P.C.BOARD ASS'T (RTL)		1	R208 R209 R210	ERJ3GEYJ104 ERJ3GEYJ272 ERJ3GEYJ104	100K 2.7K 100K	1 1 1
		P.C.BOARD ASS'T (RTL)			R208 R209 R210 R211	ERJ3GEYJ104 ERJ3GEYJ272 ERJ3GEYJ104 ERJ3GEYJ122	100K 2.7K 100K 1.2K	1 1 1
IC201	PQVIM64084GP	P.C.BOARD ASS'T (RTL) (ICS)		1	R208 R209 R210 R211 R212	ERJ3GEYJ104 ERJ3GEYJ272 ERJ3GEYJ104 ERJ3GEYJ122 ERJ3GEYJ561	100K 2.7K 100K 1.2K 560	1 1 1 1 1
IC201		P.C.BOARD ASS'T (RTL)			R208 R209 R210 R211 R212 R213	ERJ3GEYJ104 ERJ3GEYJ272 ERJ3GEYJ104 ERJ3GEYJ122 ERJ3GEYJ561 ERJ3GEYJ470	100K 2.7K 100K 1.2K 560 47	1 1 1
IC201	PQVIM64084GP	P.C.BOARD ASS'T (RTL) (ICS)		1	R208 R209 R210 R211 R212 R213 R214	ERJ3GEYJ104 ERJ3GEYJ272 ERJ3GEYJ104 ERJ3GEYJ122 ERJ3GEYJ561	100K 2.7K 100K 1.2K 560	1 1 1 1 1
IC201	PQVIM64084GP	P.C.BOARD ASS'T (RTL) (ICS)		1	R208 R209 R210 R211 R212 R213	ERJ3GEYJ104 ERJ3GEYJ272 ERJ3GEYJ104 ERJ3GEYJ122 ERJ3GEYJ561 ERJ3GEYJ470	100K 2.7K 100K 1.2K 560 47	1 1 1 1 1
IC201	PQVIM64084GP	P.C.BOARD ASS'T (RTL) (ICS)		1	R208 R209 R210 R211 R212 R213 R214	ERJ3GEYJ104 ERJ3GEYJ272 ERJ3GEYJ104 ERJ3GEYJ122 ERJ3GEYJ561 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ561	100K 2.7K 100K 1.2K 560 47 100K	1 1 1 1 1 1
IC201 IC202	PQVIM64084GP	P.C.BOARD ASS'T (RTL) (ICS) IC IC (THANSISTORS)		1	R208 R209 R210 R211 R212 R213 R214 R215 R216	ERJ3GEYJ104 ERJ3GEYJ272 ERJ3GEYJ104 ERJ3GEYJ122 ERJ3GEYJ561 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ561 Not Used	100K 2.7K 100K 1.2K 560 47 100K	1 1 1 1 1 1
IC201 IC202 Q201	PQVIM64084GP PQVIPC2746TE 2SC4099NT106	P.C.BOARD ASS'T (RTL) (ICS) IC IC (TRANSISTORS) TRANSISTOR(SI)		1 1	R208 R209 R210 R211 R212 R213 R214 R215 R216 R217	ERJ3GEYJ104 ERJ3GEYJ272 ERJ3GEYJ104 ERJ3GEYJ561 ERJ3GEYJ561 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ561 Not Used	100K 2.7K 100K 1.2K 560 47 100K 560	1 1 1 1 1 1
IC201 IC202 IC202 Q201 Q202	PQVIM64084GP PQVIPC2746TE 2SC4099NT106 2SC4099NT106	P.C.BOARD ASS'T (RTL) (ICS) IC IC (TRANSISTORS) TRANSISTOR(SI) TRANSISTOR(SI)	c	1 1 1	R208 R209 R210 R211 R212 R213 R214 R215 R216 R217 R218	ERJ3GEYJ104 ERJ3GEYJ272 ERJ3GEYJ104 ERJ3GEYJ561 ERJ3GEYJ561 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ561 Not Used Not Used ERJ3GEYJ000	100K 2.7K 100K 1.2K 560 47 100K 560	1 1 1 1 1 1 1 1 1 1
C201 C202 C201 C201 C202 C203	PQVIM64084GP PQVIPC2746TE 2SC4099NT106 2SC4099NT106 2SC4099NT106 2SC4571R77	(ICS) IC IC (TRANSISTORS) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)	s	1 1 1 1 1	R208 R209 R210 R211 R212 R213 R214 R215 R216 R217	ERJ3GEYJ104 ERJ3GEYJ272 ERJ3GEYJ104 ERJ3GEYJ561 ERJ3GEYJ561 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ561 Not Used	100K 2.7K 100K 1.2K 560 47 100K 560	1 1 1 1 1 1
C201 C202 C201 C201 C202 C203 C204	PQVIM64084GP PQVIPC2746TE 2SC4099NT106 2SC4099NT106 2SC4571R77 2SC3356R24	P.C.BOARD ASST (RTL) (ICS) IC IC (TRANSISTORS) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)		1 1 1 1 1 1	R208 R209 R210 R211 R212 R213 R214 R215 R216 R217 R218 R219	ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ561 ERJ3GEYJ561 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ561 Not Used Not Used ERJ3GEYJ000 ERJ3GEYJ123	100K 2.7K 100K 1.2K 560 47 100K 560	1 1 1 1 1 1 1 1 1 1 1 1 1
C201 C202 C201 C202 C202 C203 C204 C205	PQVIM64084GP PQVIPC2746TE 2SC4099NT106 2SC4099NT106 2SC4571R77 2SC3356R24 2SC4571R77	P.C.BOARD ASS'T (RTL) (ICS) IC IC (TRANSISTORS) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)	\$ \$	1 1 1 1 1	R208 R209 R210 R211 R212 R213 R214 R215 R216 R217 R218 R219	ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ122 ERJ3GEYJ561 ERJ3GEYJ470 ERJ3GEYJ561 Not Used Not Used ERJ3GEYJ000 ERJ3GEYJ123 ERJ3GEYJ123	100K 2.7K 100K 1.2K 560 47 100K 560 0 12K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C201 C202 C201 C202 C202 C203 C204 C205	PQVIM64084GP PQVIPC2746TE 2SC4099NT106 2SC4099NT106 2SC4571R77 2SC3356R24	P.C.BOARD ASST (RTL) (ICS) IC IC (TRANSISTORS) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)		1 1 1 1 1 1	R208 R209 R210 R211 R212 R213 R214 R215 R216 R217 R218 R219 R220 R220	ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ561 ERJ3GEYJ561 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ561 Not Used Not Used ERJ3GEYJ000 ERJ3GEYJ123	100K 2.7K 100K 1.2K 560 47 100K 560	1 1 1 1 1 1 1 1 1 1 1 1 1
IC201 IC202 Q201 Q202 Q203 Q204 Q205	PQVIM64084GP PQVIPC2746TE 2SC4099NT106 2SC4099NT106 2SC4571R77 2SC3356R24 2SC4571R77	P.C.BOARD ASS'T (RTL) (ICS) IC IC (TRANSISTORS) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)		1 1 1 1 1	R208 R209 R210 R211 R212 R213 R214 R215 R216 R217 R218 R219 R220 R221 R222	ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ122 ERJ3GEYJ561 ERJ3GEYJ470 ERJ3GEYJ561 Not Used Not Used ERJ3GEYJ000 ERJ3GEYJ123 ERJ3GEYJ123	100K 2.7K 100K 1.2K 560 47 100K 560 0 12K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IC201 IC202 Q201 Q202 Q203 Q204	PQVIM64084GP PQVIPC2746TE 2SC4099NT106 2SC4099NT106 2SC4571R77 2SC3356R24 2SC4571R77	P.C.BOARD ASS'T (RTL) (ICS) IC IC (TRANSISTORS) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)		1 1 1 1 1	R208 R209 R210 R211 R212 R213 R214 R215 R216 R217 R218 R219 R220 R220	ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ122 ERJ3GEYJ561 ERJ3GEYJ470 ERJ3GEYJ561 Not Used Not Used ERJ3GEYJ000 ERJ3GEYJ000 ERJ3GEYJ123 ERJ3GEYJ470 ERJ3GEYJ100	100K 2.7K 100K 1.2K 560 47 100K 560 0 12K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Ref. No.	Part No.	Value	Pcs/Set
R225	ERJ3GEYJ470	47	1
R226	ERJ3GEYJ470	47	li
R227	ERJ3GEYJ100	10	l :
R228	ERJ3GEYJ561	560	
R229	ERJ3GEYJ560		1 !
n229	ENJOGETJOOU	56	1
R230	ERJ3GEYJ563	56K	1
R231	ERJ3GEYJ153	15K	1
R232	ERJ3GEYJ153	15K	1
R233	ERJ3GEYJ470	47	1
R234	ERJ3GEYJ100	10	1
R235~239	Not Used		·
R240	ERJ3GEYJ272	2.7K	1
R241-259	Not Used		
R260	Not Used		
R261	ERJ3GEYJ000	lo	1
R262~269	Not Used		
R270	ERJ3GEYJ000	0	1
			·
		(CAPACITORS)	
C200	ECUV1H101JCV	100P	1
C201	Not Used	1007	'
C202	ECST0JX226	22 S	1
C203	PQCUV1C105ZF	1	1
C204	ECUV1H101JCV	100P	1
C205	ECUV1H332KBV	0.0033	
C206	ECUV1H472KBV	0.0047	1
C207	ECUV1H332KBV	0.0047	1
C208	The second secon	1	1.
C209	ECUV1H332KBV	0.0033	1
C209	ECUV1E104ZFV	0.1 S	1
C210	ECUV1H103KBV	0.01	1
C211	ECST0JX226	22 · S	1
C212	ECUV1H103KBV	0.01	- 1
C213	ECUV1H101JCV	100P	1
C214	Not Used	l i	ı
C215	ECUV1H040CCV	4P	1
C216	ECUV1H103KBV	0.01	1
C217	ECUV1H270JCV	27P	1
C218	ECUV1E104ZFV	0.1 S	1
C219	Not Used		
C220	ECUV1H020CCV	2P	1 -
C221	Not Used	1	. [
C222	ECUV1H100DCV	10P S	1 1
C223	ECUV1H270JUV	27P	1
C224	ECUV1H270JUV	27P	- 1
	Not Used		I
C226	Not Used		
C227	ECUV1H102KBV	0.001	1
C228	ECUV1H040CCV	4P	1
	ECUV1H102KBV	0.001	1
C230	ECUV1H040CCV	4P	1 I
1	Not Used	,	
	ECUV1H102KBV	0.001	1.
	Not Used		
	ECUV1H101JCV	100P	1
	Not Used		

Ref. No.	Part No.	Part Name & Description	Pcs/Set
C237	Not Used		
C238	ECUV1H040CCV	4P	1
C239	ECUV1H020CCV	2P	1
C240	ECUV1H040CCV	4P	1
C241	ECUV1H102KBV	0.001	1
C242	ECUV1H102KBV	0.001	1
C243	Not Used		
C244	ECUV1H102KBV	0.001	1
C245	ECUV1H101JCV	100P	1 1
C246	ECUV1H020CCV	2P	1
C247	ECUV1E104ZFV	0.1 S	1
C248	Not Used		
C249	ECST0JX226	22 S	1
C250	Not Used		
C251	ECUV1H102KBV	0.001	
C252	ECUV1C224KB	0.22	1
C253	ECUV1H562KBV	0.0056	1
C254	ECUV1H562KBV	0.0056	1
C255~259	Not Used		
C260	Not Used		
C261	Not Used		- 1
C262	ECUV1H101JCV	100P	1
L205	ECUV1H101JCV	100P	1

		KX-T9300DM	
		ACCESSORIES	· · · · · · · · · · · · · · · · · · ·
A1	KX-A35G-1	AC ADAPTOR	1
A2	PQJA10032Z	TELEPHONE CORD	1
A3	PQKC10003Z1	BELT CLIP S	1
A4	PQKK10045Z1	BATTERY COVER S (for BASE UNIT)	1
A5	PQKK10046Z1	BATTERY COVER S (for PORTABLE UNIT)	1
A6 . A7	PQQX11457Z	INSTRUCTION BOOK	1
A8	PQQT11240Z	TEL CARD LABEL	1
		PACKING MATERIALS	
P1	XZB20X35A01	PROTECTION COVER	1
		(for BASE UNIT)	
P2	XZB10X25A02	PROTECTION COVER	1
	•	(for PORTABLE UNIT)	
P3	PQPN10362Z	INNER BOX	1
P4	PQPN10363Z	ACCESSORY BOX	1
P5	PQPK11909Z	GIFT BOX	1
		FIXTURE AND TOOL	
Z1	PQZZ10K13Z	EXTENSION CORD, 10P	2
Note:	N/137 in management for		
ruzz10	K13Z is neccessity for	servicing.	

ORDER NO. KM49602026C2

Service Manual

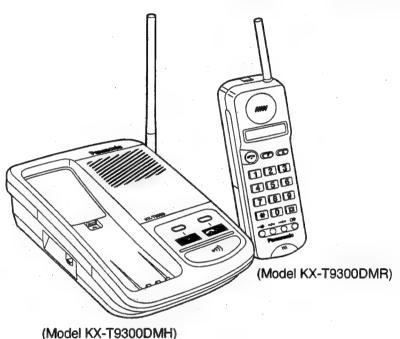
WIRELESS PHONE

and Technical Guide

Telephone Equipment

KX-T9300DM

(for Denmark)



SPECIFICATIONS

	Base Unit (KX-T9300DMH)	Portable Handset (KX-T9300DMR)
Power Source:	AC Adaptor (KX-A35G-1)	Rechargeable Ni - Cd battery
Receiving Frequency:	40 channels within 914.0125 ~914.9875 MHz	40 channels within 959.0125 ~959.9875MHz
Receiving Method:	Double super heterodyne	Double super heterodyne
Transmitting Frequency:	40 channels within 959.0125 ~959.9875 MHz	40 channels within 914.0125 ~914.9875 MHz
Oscillation Method:	PLL synthesizer	PLL synthesizer
Detecting Method:	Quadrature Discriminator	Quadrature Discriminator
Tolerance of OSC Frequency:	±2.5 kHz	±2.5 kHZ
Modulation Method:	F3 (frequency modulation)	F3 (frequency modulation)
ID Code:	20-bit written in ROM	20-bit written in ROM
Dial Mode:		Tone (DTMF)/Pulse
Redial:		Up to 30 digits
Save:		Up to 30 digits
Power Consumption:		20 hrs at Standby, 3 hrs at Talk
Dimension (H×W×D):	$2^{1/8}$ " $\times 5^{27/32}$ " $\times 7^{15/32}$ " (54 \times 148 \times 190 mm)	$7^{7/8}$ " $\times 2^{5/32}$ " $\times 1^{13/32}$ " (200 $\times 55 \times 36$ mm)
Weight	0.95 lbs. (430g) with battery	0.51 lbs. (230g) with battery

Design and specifications are subject to change without notice.

Panasonic

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

When you mention the serial number, write down all 11 digits. The serial number may be found on the label affixed to the bottom of the unit.

FOR SERVICE TECHNICIANS

ICs and LSIs are vulnerable to static electricity.

When repairing, the following precautions will help prevent recurring malfunctions.

- 1. Cover plastic parts boxes with aluminum foil.
- 2. Ground the soldering irons.
- 3. Use a conductive mat on worktable.
- 4. Do not grasp IC or LSI pins with bare fingers.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacture's instructions.

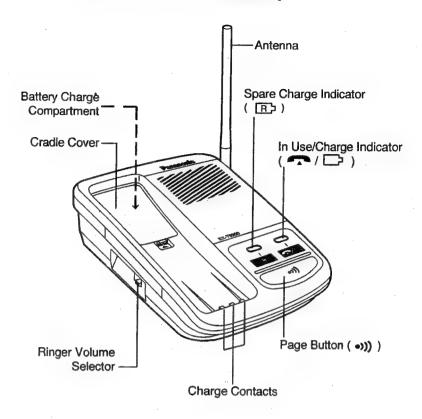
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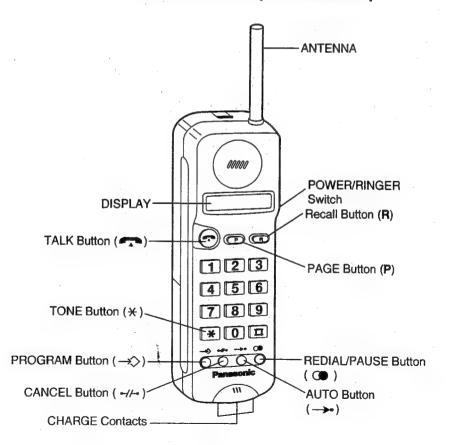
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SCHEMATIC DIAGRAM (KX-T9300DMR)	28~30
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LOCATION OF CONTROLS

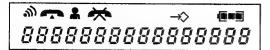
Base Unit (KX-T9300DMH)



Portable Handset (KX-T9300DMR)



Display



(This display shows all the possible configurations.)

0 1-03-40

The call duration is displayed during a conversation. (Example: 1 hour 3 minutes 40 seconds)

 $\rightarrow \diamondsuit$

The unit is in programming

mode.

(flashing)

You are paging the other unit, or vice versa.

·

The unit is making or answering a call.

(flashing)

An outside call is

coming.

2

The unit is in the direct call mode.

挙

The unit is in the outgoing call restriction mode.

(flashing)

The handset battery needs charging.

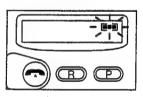
STANDARD BATTERY LIFE

If your Panasonic battery is fully chaged:

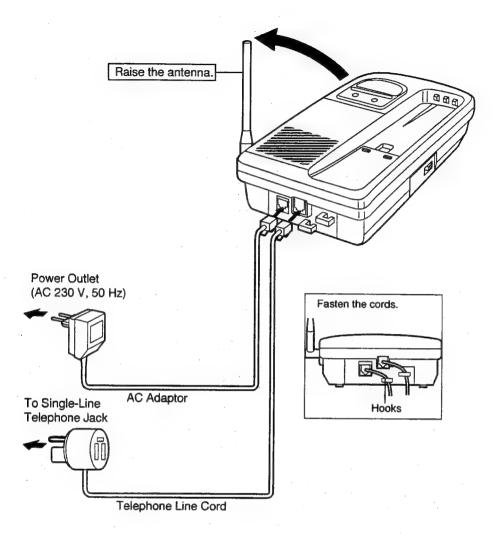
İ	While the phone is in use (TALK)	Up to about 4 hours
	While the phone is not is use (Stand-By)	Up to about 50 hours

(Battery life may vary depending on usage conditions and ambient temperature.)

Recharge the handset battery, when " • " flashes or beep tones sound every 15 seconds during a conversation.



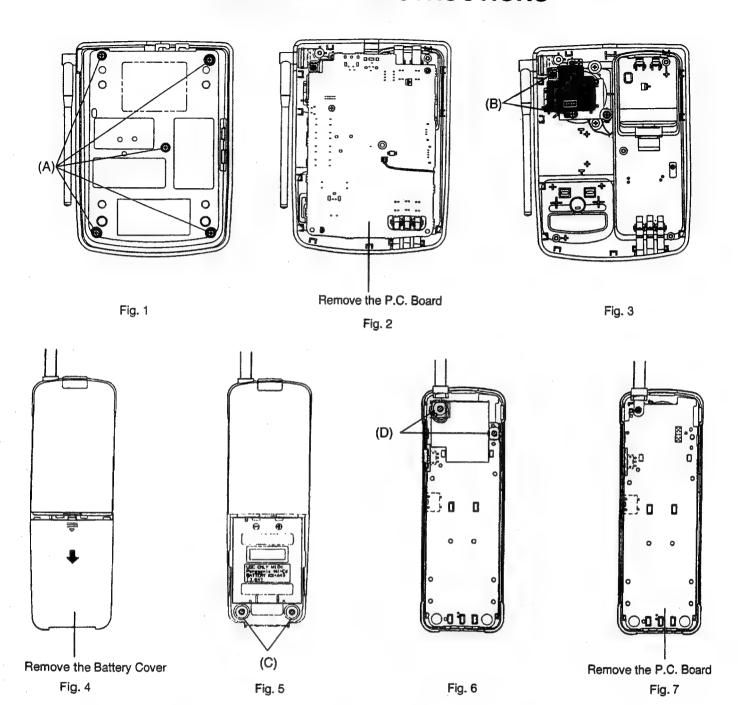
CONNECTION



Notes:

- USE ONLY Panasonic AC ADAPTOR KX-A35G-1.
- The AC adaptor must remain connected at all times.(If may feel warm during use. This is normal.)
- If you connect a reserve telephone on the same line.

DISASSEMBLY INSTRUCTIONS



Ref No.	Rrocedure	Shown in Fig. –	To Remove	Remove
1	1	1	Lower Cabinet	Screws (3 ~12)(A) -5
2	1, 2	2	Main P.C. Board	Remove the P.C. Board
3	1~3	3	RF Unit	Screws (3 ~10)(B) ~2
4	5	4	Battery Cover	Remove the Battery Cover
5	5, 6	5	Rear Cabinet	Screws (2.6 ~12)(C) -2
6	5~7	6	RF Unit	Screws (2.6 ~12)(D) -2
7	5~8	7	P.C. Board	Remove the P.C. Board

HOW TO REPLACE FLAT PACKAGE IC

PREPARATION

· SOLDER _ _ _ _ _ Sparkle Solder 115A-1, 115B-1
OR
Almit Solder KR-19, KR-19RMA

· Soldering iron – – – – Recommended power consumption will be between 30 W to 40 W.

Temperature of Copper Rod 662 ± 50 °F (350 ±10 °C)

(An expert may handle 60~80 W iron, but beginner might damage foil by overheating.)

· Flux - - - - - - HI115 Specific gravity 0.863

(Original flux will be replaced daily.)

PROCEDURE

1. Temporary fix FLAT PACKAGE IC by soldering on two marked 2 pins.

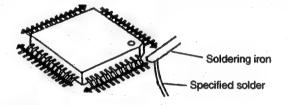


*Most important matter is accurate setting of IC to the corresponding soldering foil.

2. Apply flux for all pins of FLAT PACKAGE IC.

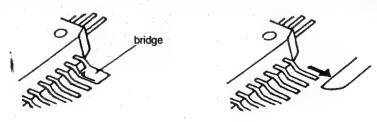


3. Solder employing specified solder to direction of arrow, as sliding the soldering iron.



MODIFICATION PROCEDURE OF BRIDGE

- 1. Re-solder slightly on bridged portion.
- 2. Remove remained solder along pins employing soldering iron as shown in below figure.



CPU DATA KX-T9300DMH (BASE UNIT)

DTMF

ноок DIAL PULSE (NSA) E. RECALL ARAM MUTE MIC MUTE SP MUTE

BELL LINE VOL DIAL TONE

13) M.CHG

S. CHG

PAGE

POW DOWN

IC4 MN150808KJAK 64(63)62(61)60(59)58(57)56(55 IN USE PLL DATA (OSC2 ROM CS ALARM ROM DO OSC1 S. CHG LED IC4

S. CHG CONT (35

VOL 1 VOL 2

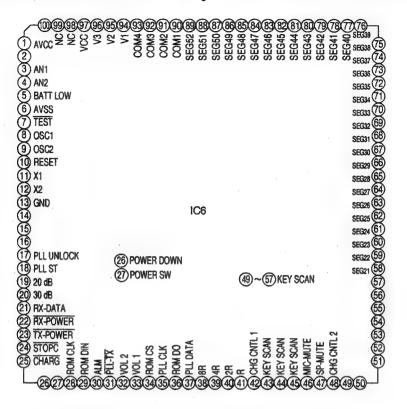
ROM CLK (34)

ROM DI (33)

Pin	Description	1/0	High	High-Z	Low	Pin	Description	1/0	High	High-Z	Low
1	(0.12 mA RLY)	0	ON			33	ROM-DIN	0			
2	HOOK RLY	0	ON	ļ		34	ROM-CLK	0			
3	DP	0	MAKE		BREAK	35	Spare-CHARGE CTL	0	Normal		Tricle
4	(NSA)	0	ON			36			1	1	
5	(EARTH RLY)	0	ON			37	Strobe 2	0			Strobe
6	ALARM MUTE	0	ON			38	Strobe 3	0			Strobe
7	MIC MUTE	0	ON	ĺ		39	Strobe 4	0		İ	Strobe
8	SP MUTE	0	ON			40	Strobe 5	0]	Strobe
9	BELL		BELL Reception	1		41	KEY DATA IN	1	Normal		Key IN
10	LINE VOL		Without VOL		With VOL	42	KEY DATA IN	1	Normal		Key IN
11	DIAL TONE		With TONE	1	Without TONE	43	KEY DATA IN	1	Normai		Key IN
12				l —	Normal	44	KEY DATA IN	1	Normal	Ì	Key IN
13	CHARGE	1	-		CHARGE	45]
14	Spare-CHARGE				CHARGE	46					
15	PAGE KEY	- 1			P.DOWN	47					
16	POWER DOWN	l l	Normal		P.DOWN	48					
17	TX DATA 8R	0				49	PLL-CLK	0			i
18	TX DATA 4R	0]	50	PLL-DATA	0			1
19	TX DATA 2R	0				51	ROM-DOUT	- 1			
20	TX DATA R	0	1			52	ALARM	0	ON		
21	LINE MUTE	0	ON		Normal	53	ROM-CS	0	Active		Normal
22	RX MUTE	0	Normal		ON	54	IN USE LED	0	ON		
23	TX MUTE	0	ON		Normal	55	Spare CHARGE LED	0	ON		
24	PLL-RST	0	Normal		ON	56	External Interrupt Input	1	Normal		
25	FLS1 (20)	1	Weak electric field		Input Sens.	57	Vss				
26	FLS2 (30)		Weak electric field		Input Sens.	58	CPU Clock				
27	RX DATA					59	(3.581 MHz)	0			
28	PLL-UNLOCK	-	UNLOCK		LOCK	60	Power Source	l	Normal		
29	PLL-TX	0		Normal	ON	61	External Interrupt Input	- 1	Normal		
30	TX POWER	0		POW-OFF	POW-ON	62		0			
31	VOL. 1	0		OFF	ON	63	RESET Input		Normal		RESET
32	VOL. 2	0		OFF	ON	64					

CPU DATA KX-T9300DMR (PORTABLE HANDSET)

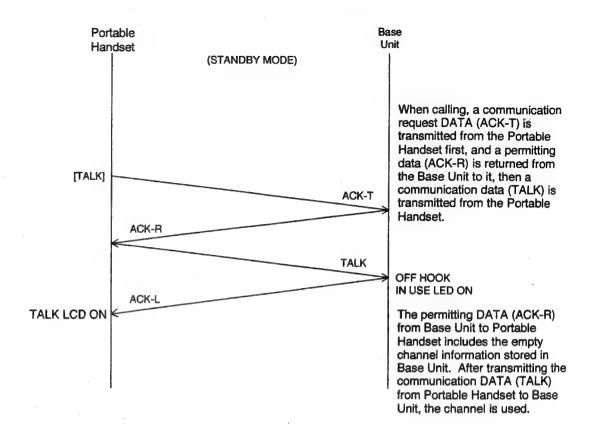
IC6 PQVI4829C23H



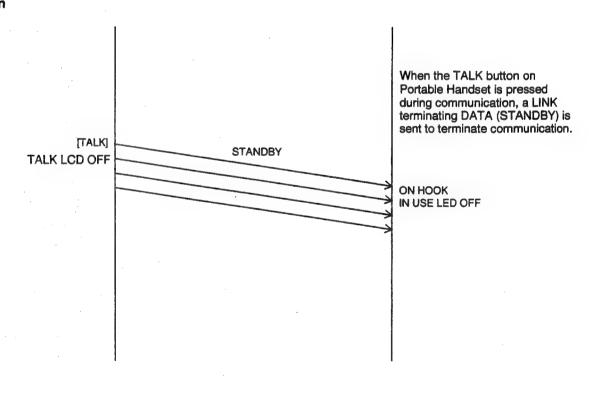
Pin	Description	1/0	High	High-Z	Low	Pin	Description	1/0	High	High-Z	Low
1			Normal			36	ID ROM-DOUT	1			
2					Normal	37	PLL-DATA	0			
3		1	l —		Normal	38	TX DATA 8R	0			
4					Normal	39	TX DATA 4R	0			
5	BATT-LOW					40	TX DATA 2R	0			
6		l	l — I		Normal	41	TX DATA R	0			
7			Normal			42	CHGCTL1	0	Normal		Trickle
8	CPU Clock	1				43	SW DATA IN	1			
9	(4 MHz)	0				44	SW DATA IN	1			
10	RESET	l i	RESET		Normal	45	SW DATA IN	1			
11	SUB Clock		!!			46	MIC-MUTE	- 1	ON		Normal
12	(32.768 kHz)	0	1 1			47	SP-MUTE	0	Normal		ON
13	GND			-	Normal	48	(Not used)	0			Normal
14	-	l i	Normal			49	Strobe	0			Strobe
15		o			Normal	50	Strobe	0			Strobe
16		Ŏ			Normal	51	Strobe	0			Strobe
17	PLL-UNLOCK	i	UNLOCK	1	LOCK	52	Strobe	0			Strobe
18	PLL-ST	o				53	Strobe	Ō			Strobe
19	FLS1 (20)	Ĭ	Weak electric field		Input Sens.	54	KEY DATA IN	1	Normal		Key IN
20	FLS2 (30)		Weak electric field		Input Sens.	55	KEY DATA IN	1	Normal		Key IN
21	RX DATA	1				56	KEY DATA IN	1	Normal		Key IN
22	RX-POW	o		Normal	ON	57	KEY DATA IN	1	Normal		Key IN
23	TX-POW	0		Normal	ON	58~89	SEG21-52	0	110111101		,
24	STOPC	_				90	COM1	0		().	1
25	CHARGE	l ı	Normal		CHARGE	91	COM2	0			1
26	POWER DOWN	l i	Normal		P. DOWN	92	COM3	0			
27	POWER SW	Ö	Normal		ON	93	COM4	ō			[
28	ID-ROM CLK	ŏ				94		-	Normai		
29	ID-ROM DIN	ŏ				95		ا ا			
30	ALARM	lo		Normal		96	8	1			
31	PLL-TX	ŏ		Normal	ON	97	Source		Normal		
32	VOL. 1	ŏ			_	98					
33	VOL. 2	lŏ				99					
34	ID ROM-CS	ő				100					Normal
35	PLL-CLK	ŏ									l

EXPLANATION OF CPU DATA COMMUNICATION

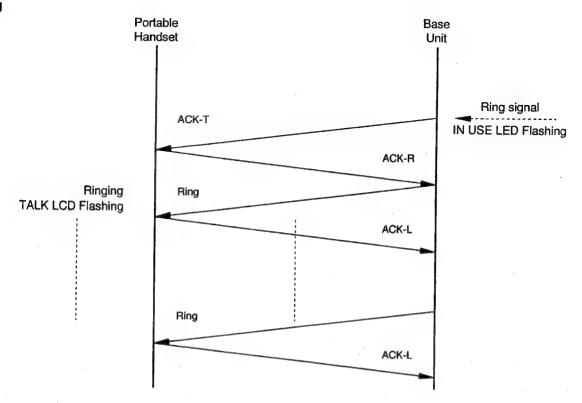
1. Calling



2. To terminate Communication



3. Ringing



After detecting the Ring signal from circuit, the Base Unit sends a LINK form requesting DATA (ACK-T) to the Portable Handset. When receiving this data, the Portable Handset returns a permitting DATA (ACK-R) to the Base Unit. After receiving the returned DATA from the Portable Handset, the Base Unit sends a ring signal DATA (Ring), then the Portable Handset starts ringing.

4. Ports for transmitting and receiving of data

Portable Handset: transmitting 38~41 Pin receiving 21 Pin

Base Unit: transmitting 17~20 Pin receiving 27 Pin

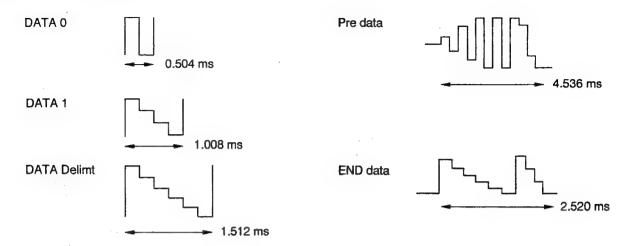
5. Wave form of DATA used for cordless transmission and reception

The DATA which is transmitted from the Portable Handset to the Base Unit is combination of DATA 0, DATA 1, DATA Delimt, Pre data and End data of P1.

The DATA which is transmitted from the Base Unit to the Portable Handset is combination of DATA 0, DATA 1, DATA Delimt, Pre data and End data of P2.

BASE UNIT PORTABLE HANDSET

Transmitting DATA Format



6. When LINKing

Base unit	Pre data	START	CHANNEL	ID CODE	CNT COE	SET No.	COMMAND	Parity	END
			8 bit	20 bit	4 b	it 4 bit	8 bit	4 bit	
Portable Handset	Pre data	START	CHANNEL	ID CODE	SET No.	COMMANI	Parity E	ND	

When LINKing from the Portable Handset (when becoming STBY to TALK), DATA is transmitted in above format. The combined portion of DATA 0 and DATA 1 is transmitted in LINK requesting DATA format first. Then, when LINK OK (ACK-R) DATA is returned from the Base Unit, it is sent as LINK form DATA after changing the combination of DATA 0 and DATA 1. And the DATA Delimt is between each Frame as a stop.

The contents of LINK requesting DATA and LINK form DATA are different depending on each operation.

7. Dial Data

Portable Handset

START	ID CODE	COMMAND	Parity	END
33 bit				

During dialing, the dial data is sent from the Portable Handset to the Base Unit in the above-mentioned format. The lower significant 4 bits of the command is changed by the dial number. When the key is kept depressed during tone dialing, the data (CONTINUE DATA) informing that the key is continued depressed is sent to the Base Unit.

NOTE

1,000,000 kinds of the security code are available for the model KX-T9300DM. Each time the portable unit is set on the cradle of the base unit (for charging), the CPU automatically change the security code.

FREQUENCY TABLE (MHz)

		Unit TX landset R)	<
СН		СН	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	959.0125 0375 0625 0875 1125 1375 1625 1875 2125 2375 2625 2875 3125 3375 3625 3875 4125 4375 4625 4875	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	959.5125 5375 5625 5875 6125 6375 6625 6875 7125 7375 7625 7875 8125 8375 8625 8875 9125 9375

		Unit RX Handset T	×
СН		СН	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	914.0125 0375 0625 0875 1125 1375 1625 1875 2125 2375 2625 2875 3125 3375 3625 3875 4125	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	914.5125 5375 5625 5875 6125 6375 6625 6875 7125 7375 7625 7875 8125 8375 8625 8875
18 19 20	4375 4625 4875	38 39 40	9375 9625 9875

ADJUSTMENTS (KX-T9300DMH)

After servicing the RF unit, never make adjustments without assembling the upper RF unit cover and the lower RF unit cover with solder.

Adjustment Preparations

- 1. Connect the main P.C. Board to RF unit by the extension cord.
- 2. Connect a distortion meter (with AC voltmeter) to the telephone line output on the base unit.
- 3. While pressing SW1, set to SW2 to on.
- 4. After hearing "Pi" sound, release SW1.
- 5. Press twice (•)) button (The unit becomes Test Mode on CH1 Talk)

Note: When selecting optional channel (ex. CH23), press once button after above preparations 4 item (Unit becomes CH01).

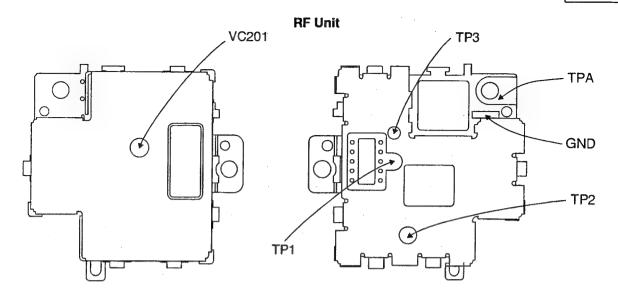
Next press twice SW3 (CH01 + CH02 = CH03) and press twice SW4 (CH03 + CH20 = CH23), then press once button. (Unit becomes Test Mode on CH23 Talk).

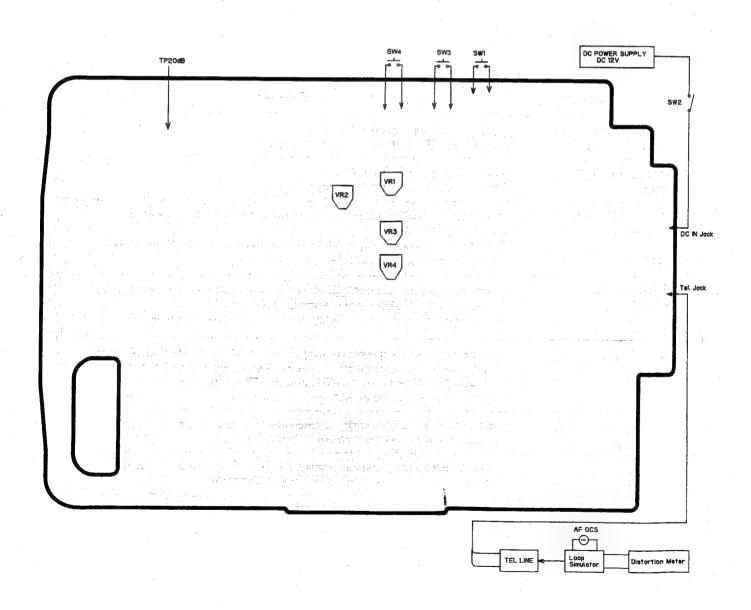
If your unit have below symptom, adjust for each item as table of adjustment on pages 14 and 15.

Symptom	Pomody		
	Remedy		
Dose not link between base unit and portable handset.	Adjust the adjustment items (A)~(D), (F), (G) and (H).		
Transmission sound for receiver is unstable.	Adjust the adjustment items (E).		
The operating distance between base unit and portable hand- set is less than normal.	Adjust the adjustment items (I).		

Item	Adjustment Item	Procedure
(A)	RX VCO Voltage Check	Place the voltmeter probe at RF unit TP2. Confirm that TP2 's voltage is within 0.5 V~2.5 V.
(B)	TX VCO Voltage Check	Place the voltmeter probe at RF unit TP3. Confirm that TP3 's voltage is within 0.5 V~2.5 V.
(C)	20 dB Electric Field Adjustment	While reduced level of S.S.G. set S.S.G. level when distortion of telephone line sending signal is 30 %. Confirm the level is less than 5 dBμVemf. If so, adjust VR1 so that brightness is equivalent whichever TP20 dB High and Low.
(D)	Standard Frequency Adjustment	Adjust VC201 so that transmission frequency is set 959.0125 MHz (CH1)±0.5 kHz. Connect frequency counter between TPA and GND.
(E)	Telephone Line Output Level Adjustment	Connect the signal generator (914.0125 MHz, 1 kHz modulation frequency, 3 kHz modulation +60 dBμVemf output level) to the RF unit TPA and GND. Adjust VR3 so that telephone line output level is –3.0 dBm ± 1.0 dB.
(F)	Max Depth of Modulation Adjustment	Set the loop simulator to sending side. Adjust VR4 so that level is 4.6 kHz devi ± 0.2 kHz devi when input signal is follow. Line input signal: 1 kHz,+6 dBm/set load (1.55 V) RF input signal:+60 dBµVemf(1 mV, -53 dBm), 0 kHz devi Line current: 40 mA
(G)	Modulation Sensitivity Adjustment	Set the loop simulator to sending side. Adjust VR1 so that level is 2.7 kHz devi ± 0.2 kHz devi when input signal is follow. Line input signal: 1 kHz, -21 dBm/set load (70 mV) RF input signal:+60 dBμVemf(1 mV, -53 dBm), 0 kHz devi Line current: 30 mA
(H)	12.8MHz Transmitter confirmation	Connect the frequency counter between the TP1 and GND and confirm that the frequency is 12.8 MHz and that Vp-p is approximately 900 mV.
(l)	TX power Confirmation	Connect the Spectrum analyzer the TPA and GND and confirm that the level is +7 dBm ±3 dB (10 mW~2.5 mW) Typ. 5.0 mW.

Adjustment item (H) and (!): Refer to page 58.





ADJUSTMENTS (KX-T9300DMR)

After servicing the RF unit, never make adjustments without assembling the upper RF unit cover and the lower RF unit cover with solder.

Adjustment Preparations

- 1. Connect the main P.C. Board to RF unit by the extension cord.
- 2. Connect a distortion meter (with AC voltmeter) to the SPK terminals (TP5) on the portable handset.
- 3. Connect 3.9 V to the battery terminals.
- 4. After pressing 1, 9, ★ keys at the same time, turn Power SW on. After that, press P key (Test mode on standby).
- 5. Press key (Test Mode on CH1 Talk).

Note: When selecting optional channel, press 2 3 keys after pressing P key of adjustment preparation 4 item (ex. CH23). Next press key (Test Mode on CH23 Talk)

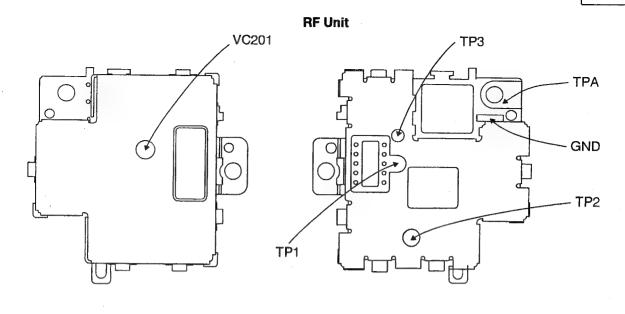
If your unit have below symptom, adjust for each item as table of adjustment on pages 16 and 17.

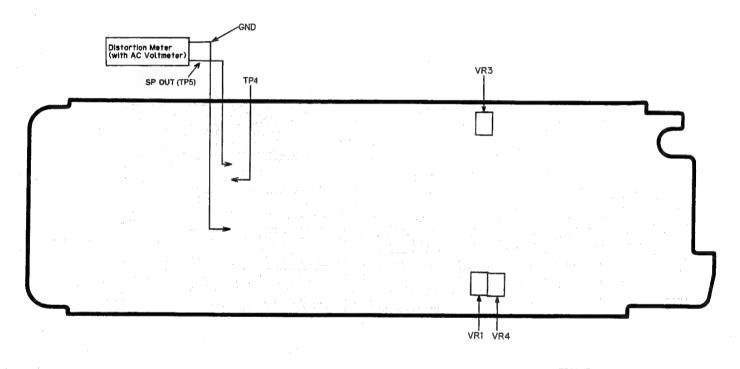
Symptom	Remedy
Dose not link between base unit and portable handset.	Adjust the adjustment items (A), (B), (C), (F) and (G).
Speaker level of portable handset is unstable.	Adjust the adjustment item (D).
Transmission sound for receiver is unstable.	Adjust the adjustment item (E).
The operating distance between base unit and portable handset is loss than normall.	Adjust the adjustment items (H).

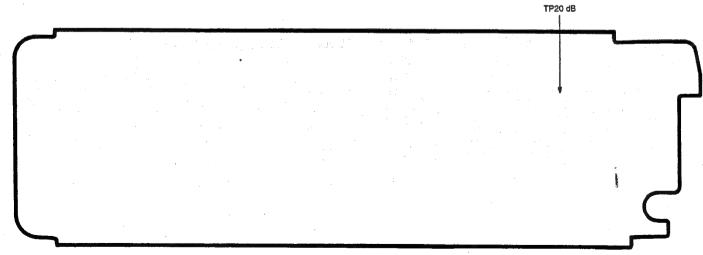
ltem	Adjustment Item	Procedure
(A)	RX VCO Voltage Check	Place the voltmeter probe at TP2. Confirm that TP2 's voltage is within 0.5 V~2.5 V.
(B)	TX VCO Voltage Check	Place the voltmeter probe at TP3. Confirm that TP3 's voltage is within 0.5 V~2.5 V.
(C)	20 dB Electric Field Adjustment	While reduced level of S.S.G. set S.S.G. level when distortion of telephone line sending signal is 30 %. Confirm the level is less than 5 dBμVemf. If so, adjust VR1 so that brightness is equivalent whichever TP20 dB High and Low.
(D)	Receiving Level Adjustment	Connect a signal generator (914.0125 MHz, 1 kHz modulation frequency, 3 kHz modulation, +60 dB μ Vemf output level) to the RF unit TPA. Adjust VR3 so that the speaker output TP5 is –18.0 dBm \pm 0.5 dB (85 mV \pm 1.7 mV).
(E)	Max Depth of Modulation Adjustment	Connect a modulation meter and signal generator [914.0125 MHz, 60 dB μ Vemf (1 mV,–53 dBm), unmodulation] in TPA and GND. Connect an AF oscillator [f=1 kHz, –19 dBm (87 mV) level] to the MIC terminals (TP4) and V _{ss} on the portable handset. Adjust VR4 to set the modulation to 4.4 \pm 0.2 kHz Devi.
(F)	Standard Frequency Adjustment	Adjust VC201 so that transmission ferquency is set 959.0125 MHz ⁺⁰ 500 Hz (CH1). Connect frequency counter between TPA and GND.
(G)	12.8 MHz Transmitter Confirmation	Connect the frequency counter between the TP1 and GND and confirm that the frequency is 12.8 MHz and that Vp-p is approximately 900 mV.
(H)	TX Power Confirmation	Connect the Spectrum analyzer the TPA and GND and confirm that the level is +7 dBm ± 3 dB (10 mW~2.5 mW) Typ 5.0 mV.

Adjustment items (G) and (H): Refer to page 59.

Note: When selecting optional channel, press 23 keys after pressing Flash key of adjustment preparation 4 item (ex. CH23). Next press Talk key (Test mode on CH23 Talk).







INFORMATION

1. When you cannot remember password for Call restriction, and cannot release Call restriction mode -

PORTABLE HANDSET

- 1) Press Program button "→> ".
- 2) Press Cancel button " -//- ".
- 3) Press in order #, 9, 0, 0, 0. (Call restriction mode is released. But, when # button is pressed, reception sound is not heard.)
- 4) Press Program button "→> ".
- 5) Press Cancel button " -//- " twice.
- 6) Press Program button "→> ".

(Password for Call restriction is canceled.)

Note: Keep above procedure secret from customers.

- 2. ROM for ID Code of Base Unit or Portable Handset is broken -
- 1) Replace ROM for ID Code of Base Unit or Portable Handset.
- 2) Input ID Code/ Country Code/ Model Code following procedure.

ID CODE SETTING

HOW TO SET BASE UNIT AND PORTABLE HANDSET TO TEST MODE

PORTABLE HANDSE	PO	RT	AB	LE	HA	ND	SE'
-----------------	----	----	----	----	----	----	-----

- 1) While pressing the Dial button 1 and 9 and X at same time, turn the Power switch "ON".
- Press Page button "P" once on the Portable Handset. The Portable Handset becomes Test Standby mode.

BASE UNIT

- 3) While pressing SW1 (refer to page 15), connect power supply to AC adaptor. "Pi" alarm sounds.
- 4) Press Page button "•)) " once on the Base Unit. The Base Unit becomes Test Standby mode.

PORTABLE HANDSET

- 5) Press Program button "→> ".
- 6) Press Page button "P".
- 7) Enter ID code (7 digits).

Example: If you enter "000010" ID code, push [0], [0], [0], [0], [1], [0] keys.

- 8) Press Page button "P".
- 9) Press 1 key.
- 10) Press Page button "P". "Pi" alarm sounds.
- 11) Press 1 and 4 keys (It is country code for Denmark).
- 12) Press Page button "P".
- 13) If your unit is model No. KX-T9300DM, press ① and ① and ① keys (It is KX-T9300DM model code of Portable Handset).
- 14) Press Page button "P".
 - Portable Handset will make linkage to Base Unit.
 - "Pi..." alarm sounds.
- 15) Press Page button "P".
- 16) If your unit is model No. KX-T9300DM, press 1 and 0 and 1 keys (It is KX-T9300DM model code of Base Unit).
- 17) Press Program button "→> ".
- 18) Turn the Power switch to "OFF" to end the setting.

BASE UNIT

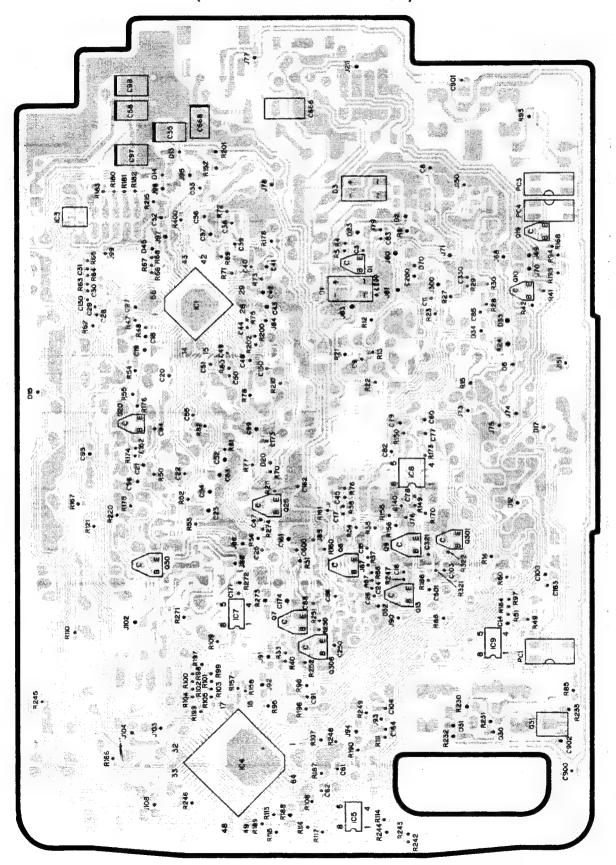
19) Press SW1 (refer to page 15) button to end the setting.

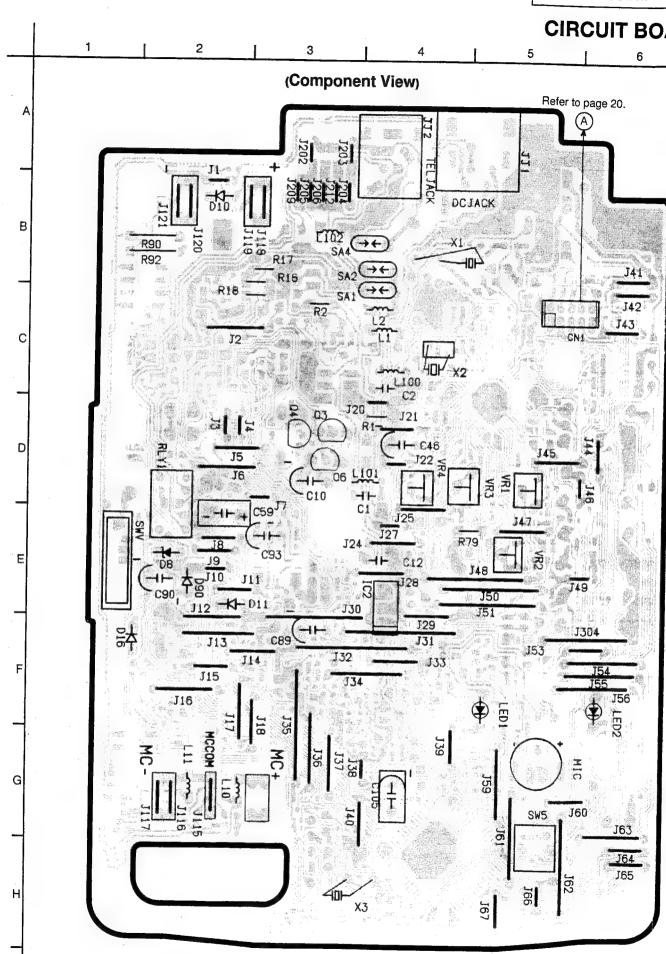
CIRCUIT BOARD (KX-T9300DMH) [RF UNIT] x201 В BXACO VC201 23 622 C553 •C555 CN 201 R231 C251 R234 C253 R230 R228 C233 G L208 Н

D (KX-T9300DMH)

7 | 8 | 9 | 10 | 11 | 12 |

(Flow Solder Side View View)





ORDER NO. KM49704324S0

Service Manual

Supplement3

WIRELESS PHONE

Telephone Equipment
KX-T9300AR/KX-T9300BL/KX-T9300DM
KX-T9300FL/KX-T9300HG/KX-T9300JT
KX-T9300NL/KX-T9300NW/KX-T9300PD
KX-T9300PR/KX-T9300S/KX-T9301SL
KX-T9300SV/KX-T9300TR/KX-T9310DM
KX-T9310PD/KX-T9310S/KX-T9310SV
KX-T9320AR/KX-T9321SL

(for Europe areas)

KX-T9350BX/KX-T9390LA

(for Asia, Middle Near East and Other areas)

Please use this manual with the original service manual mentioned on next page.

№ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

This supplement has been issued for relevancy; portable handset model No. on name plate and portable handset model No. on original service manual.

- 1. Although KX-T9300XXR/KX-T9310XXR/KX-T9320XXR are indicated as handset model No. on original Service Manual pointed by arrow in below Fig., KX-A78XX/KX-A362SL are indicated as handset model No. on name plate.
- As two types indications are same unit, when repairing handset, refer to original Service Manual shown in the Table-1 on next page of this supplement.

Example for Denmark:

Name Plate of Handset

Panasonic

Model: KX-A78DM

Kyushu Matsushita Electric Co; Ltd.

Made in Japan

PQGT12656ZA

Cover of original Service Manual



(KX-T9300DMH)

(KX-T9300DMR)

Panasonic

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Portable Handset	Model No.	Country	Order No. of	Sup. No
Model No. on Name Plate	on original S/M		original S/M	Joup. NO
KX-A78AR-1	KX-T9300AR	Austria	KM49604040A2	3
TOC TO OAT !-!	KX-T9320AR	Austria	KM49609087C2	2
KX-A78BL	KX-T9300BL	Belgium	KM49606050C2	2
KX-A78DM	KX-T9300DM	Denmark	KM49602026C2	3
TOCATOBIN	KX-T9310DM	Denmark	KM49608080A2	3
KX-A78FL	KX-T9300FL	Finland	KM49603035A2	3
KX-A78HG	KX-T9300HG	Hungary	KM49611118A2	2
KX-A78NL	KX-T9300NL	Holland	KM49603039A2	3
KX-A78JT	KX-T9300JT	Italy	KM49603034A2	3
KX-A78NW	KX-T9300NW	Norway	KM49512018A2	3
KX-A78PD	KX-T9300PD	Poland	KM49609083A2	3
	KX-T9310PD	Poland	KM49610096A2	3
KX-A78PR	KX-T9300PR	Portugal	KM49610093A2	3
KX-A78S	KX-T9300S	Sweden	KM49511009C2	3
——————————————————————————————————————	KX-T9310S	Sweden	KM49606052C2	3
KX-A78SV	KX-T9300SV	Slovakia	KM49609082A2	3
	KX-T9310SV	Slovakia	KM49610094A2	3
KX-A78SL/KX-A362SL	KX-T9321SL	Switzerland	KM49612310S2	2
KX-A78G	KX-T9300TR	Turky	KM49612126A3	1
KX-A78BX	KX-T9350BX	Asia, Middle Near East	KM49601024C3	2
KX-A78LA	KX-T9390LA	and Other areas	KM49604042C3	2

(Table-1)

■ PARTS COMPARISON TABLE

Note: Below tables indicate part No. for multi. portable handset (KX-A78XX/KX-A362SL) that are for purchase by sales route of Panasonic.

Model No.: KX-A78AR-1

Ref. No. Pa	Part No.			Pcs/	Remark	Implementation
	Supplement	Set		, icinari	Implementation	
ACCESSOR	IES					<u> </u>
A1		PQKC10003Z1	Belt Clip	1	Addition	From 1st Prod.
A2		PQQX11699Z	Instruction Book	1	Addition	From 1st Prod.
A3		PQKK10046Z1	Battery Cover	1	Addition	From 1st Prod.
PACKING M	IATERIALS					
P1		PQPD10212Z	Pad	1	Addition	From 1st Prod.
P2		PQPG10300Z	Inner Box	1	Addition	From 1st Prod.
P3		PQPK12245Z	Gift Box	1	Addition	From 1st Prod.
P4		XZB10X15A04	Protection Cover	1	Addition	From 1st Prod.

Model No.: KX-A78DM

Ref. No. Original	F	Part No.	Part Name & Description	Pcs/	Remark	Implementation
	Original	Supplement	1	Set	Homark	Implementation
ACCESSOR	IES			1 001		
A1		PQKC10003Z1	Belt Clip	1	Addition	From 1st Prod.
A2		PQQX11689Z	Instruction Book	1	Addition	From 1st Prod.
A3		PQKK10046Z1	Battery Cover	1	Addition	From 1st Prod.
	MATERIALS					
P1		PQPD10212Z	Pad	1	Addition	From 1st Prod.
P2		PQPG10300Z	Inner Box	1	Addition	From 1st Prod.
P3	·	PQPK12230Z	Gift Box	1	Addition	From 1st Prod.
P4		XZB10X15A04	Protection Cover	1	Addition	From 1st Prod.

Model No.: KX-A78PD

Ref. No.	F	art No.	Part Name & Description	Pcs/	Remark	Implementation
	Original	Supplement		Set		
ACCESSOF	RIES					
A1_		PQKC10003Z1	Belt Clip	1	Addition	From 1st Prod.
A2		PQQX11697Z	Instruction Book	1	Addition	From 1st Prod.
A3		PQKK10046Z1	Battery Cover	1	Addition	From 1st Prod.
PACKING N	MATERIALS				1	
P1		PQPD10212Z	Pad	1	Addition	From 1st Prod.
P2		PQPG10300Z	Inner Box	1	Addition	From 1st Prod.
P3		PQPK12243Z	Gift Box	1	Addition	From 1st Prod.
P4		XZB10X15A04	Protection Cover	1.	Addition	From 1st Prod.

Model No.: KX-A78S

Ref. No.	P	art No.	Part Name & Description	Pcs/	Remark	Implementation
	Original	Supplement		Set		
ACCESSOR	IES					
A1		PQKC10003Z1	Belt Clip	1	Addition	From 1st Prod.
A2		PQQX11688Z	Instruction Book	1	Addition	From 1st Prod.
A3		PQKK10046Z1	Battery Cover	1	Addition	From 1st Prod.
PACKING N	MATERIALS				24 2	
P1		PQPD10212Z	Pad	1	Addition	From 1st Prod.
P2		PQPG10300Z	Inner Box	1	Addition	From 1st Prod.
P3		PQPK12229Y	Gift Box	1	Addition	From 1st Prod.
P4		XZB10X15A04	Protection Cover	1	Addition	From 1st Prod.

Model No.: KX-A78SV

Ref. No.	Part No.		Part Name & Description	Pcs/	Remark	Implementation
	Original	Supplement		Set		
ACCESSO	RIES					
A1		PQKC10003Z1	Belt Clip	1	Addition	From 1st Prod.
A2		PQQX11696Z	Instruction Book	1	Addition	From 1st Prod.
A3		PQKK10046Z1	Battery Cover	1	Addition	From 1st Prod.
PACKING	MATERIALS					The State of the S
P1		PQPD10212Z	Pad	1	Addition	From 1st Prod.
P2		PQPG10300Z	Inner Box	1	Addition	From 1st Prod.
P3		PQPK12242Z	Gift Box	1	Addition	From 1st Prod.
P4		XZB10X15A04	Protection Cover	1	Addition	From 1st Prod.

Model No.: KX-A362SL

Ref. No.	P	art No.	Part Name & Description	Pcs/	Remark	Implementation
	Original	Supplement		Set		
ACCESSOR	IES				-	
A1		PQKC10003Z1	Belt Clip	1	Addition	From 1st Prod.
A2		PQQX11698Z	Instruction Book	1	Addition	From 1st Prod.
A3		PQKK10046Z1	Battery Cover	1	Addition	From 1st Prod.
PACKING N	MATERIALS					
P1		PQPD10212Z	Pad	1	Addition	From 1st Prod.
P2		PQPG10300Z	Inner Box	1	Addition	From 1st Prod.
P3		PQPK12244Z	Gift Box	1	Addition	From 1st Prod.
P4		XZB10X15A04	Protection Cover	1	Addition	From 1st Prod.

Model No.: KX-A78BX

Ref. No.	F	Part No.	Part Name & Description	Pcs/	Remark	Implementation
	Original	Supplement		Set	Hemaik	Implementation
ACCESSO	RIES		- L	001		L
A1 .		PQKC10003Z2	Belt Clip	1	Addition	From 1st Prod.
A2		PQQW11485Z	Instruction Book	1	Addition	From 1st Prod.
A3		PQKK10046Z2	Battery Cover	1	Addition	From 1st Prod.
	MATERIALS					
P1		PQPD10316Z	Pad	1	Addition	From 1st Prod.
P2	•	PQPG10352Z	Inner Box	. 1	Addition	From 1st Prod.
P3		PQPK12113Z	Gift Box	1	Addition	From 1st Prod.
P4		XZB10X15A04	Protection Cover	1	Addition	From 1st Prod.

Model No.: KX-A78LA

Ref. No.	F	art No.	Part Name & Description	Pcs/	Remark	Implementation
	Original	Supplement	1	Set	rioman	implementation
ACCESSOR	IES			00.		
A1		PQKC10003Z2	Belt Clip	1	Addition	From 1st Prod.
A2		PQQX11687Z	Instruction Book	1	Addition	From 1st Prod.
A3		PQKK10046Z2	Battery Cover	1	Addition	From 1st Prod.
	MATERIALS					
P1		PQPD10316Z	Pad	1	Addition	From 1st Prod.
P2		PQPG10352Z	Inner Box	1	Addition	From 1st Prod.
P3		PQPK12227Z	Gift Box	. 1	Addition	From 1st Prod.
P4		XZB10X25A02	Protection Cover	1	Addition	From 1st Prod.

■ ACCESSORIES AND PACKING MATERIALS

